SEARCH REQUEST FORM Requestor's Number: 08/646 519 Name: Phone: 703 349-3271 Art Unit: ___ Search Topic: Please write a detailed statement of search topic. Describe specifically as possible the subject matter to be searched. Define any terms that may have a special meaning. Give examples or relevent citations, authors, keywords, etc., if known. For sequences, please attach a copy of the sequence. You may include a copy of the broadest and/or most relevent claim(s). Method of cleaning bone to produce bone grafts. Method involves sonicating the bone. Key terms: Inventor Search Lloyd Wolfenberger, Jr. Ultrasound Cadaver or donor Bone graft (allograft) Bone transplantation: Bone Marrow Removal. Bacteria, fungis, viral climination by Utaca sound STAFF USE ONLY Search Site STN Terminal time: Pre-S Dialog Elapsed time: Type of Search CPU time:_

Number of Databases: Structure Bibliographic

Other

Geninfo

DARC/Questel

SDC

N.A. Sequence

A.A. Sequence

PTO-1590 (9-90)

Total time: ____

Number of Searches:

(author search)

L59 ANSWER 1 OF 3 WPIDS COPYRIGHT 1997 DERWENT INFORMATION LTD

ACCESSION NUMBER: 96-432860 [43] WPIDS

DOC. NO. NON-CPI: N96-364803

DOC. NO. CPI: C96-135767 Cleaning of large bone grafts - by immersing done TITLE:

> in soln. contg. solvent for bone marrow and applying vacuum through prepd. opening in intact

bone.

A96 D22 E19 P34 DERWENT CLASS: WOLFINBARGER, L INVENTOR(S):

(LIFE-N) LIFENET RES FOUND PATENT ASSIGNEE(S):

COUNTRY COUNT:

PATENT INFORMATION:

PATENT NO KIND DATE WEEK LA 20 US 5556379 A 960917 (9643)*

APPLICATION DETAILS:

PATENT NO		APPLICATION	DATE
US 5556379		US 94-293206	940819 950227

PRIORITY APPLN. INFO: US 95-395113 950227; US 94-293206

96-432860 [43] AN WPIDS

AB US 5556379 A UPAB: 961025

> Large bone grafts are cleaned as follows: (a) excess cartilage is removed from at least 1 articulating surface of a large substantially intact bone; (b) an opening through the cortical layer of the bone is prepd. to permit access of a vacuum line to the bone cavity, and the line is attached; (c) the bone is immersed in a soln. (A2) contg. at least 1 solvent for bone marrow; and (d) a vacuum is applied to draw (S1) through the cartilaginous articulating surface and then through the cavity to withdraw solubilised bone marrow.

(S1) pref. comprises endotoxin-free deionised/distilled H2O, 1 or more solvents (0.001-2 % esp. 0.01-0.5 % anionic and/or nonionic detergents; esp. polyoxyethylene alcohols, polyethylene glycol, p-isooctylphenylethers, polyoxyethylene nonylphenol, and polyoxyethylene sorbitol esters), and also EtOH (pref. 5-95 % esp. 10-30 % v/v), as well as 1 or more of endotoxin-free deionised/distilled H2O and/or EtOH, and 1 or more antibiotics, antiviral agents, H2O2, permeation enhancers, organic acids, and dil. solns. of strong acids.

ADVANTAGE - The method with min. handling and processing provides large bone graft material which is essentially free of residual bone marrow, and which may be used in the prepn. of small bone grafts. Thus transmission of infective agents (bacteria and viruses, esp. HIV) is reduced, while structural damage to the cancellous bone is minimised. Dwg.0/8

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ACCESSION NUMBER: 94-016055 [02] WPIDS

DOC. NO. NON-CPI: N94-012082 DOC. NO. CPI: C94-007662

TITLE: Extn. of undesirable bone constituents partic. for bone tissue de-mineralisation for implants - by flowing soln. through bone in column until predetermined characteristic of the outflowing soln. is achieved.

DERWENT CLASS:

B04 S03

INVENTOR(S):

BOTTENFIELD, S; WOLFINBARGER, L

PATENT ASSIGNEE(S):

(LIFE-N) LIFENET

COUNTRY COUNT:

ì

PATENT INFORMATION:

PA	TENT	ИО	KIND	DATE	WEEK	LA	PG	
								_
US	527	5954	1 A	940104	(9402)	*	16	

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
US 5275954	A	US 91-664675 9	10305

PRIORITY APPLN. INFO: US 91-664675 910305

AN 94-016055 [02] WPIDS

AB US 5275954 A UPAB: 940223

Bone, from which undesirable constituents are to be removed, is loaded into at least one column (1) and a first solution (A) is flowed through the column until a predetermined characteristics of a first solute which is present in the solution as the solution leaves the column, reaches a desired value.

Pref. a number of different solutions (A,B,C) preflowed through the column in sequence with a predetermined characteristic of each solution being monitored. First soln. may be a lipophilic solvent the second water or acid, and the third calcium or calcium ions. The characteristics detected may be the absorbence of the first or second solutes, e.g. by dipping into deionised water and determining whether a precipitor detecting conductivity using a calcium specific electrode. The bone can be particulate or strips of cortical bone with a number of colums being processed simultaneously under computer control.

USE/ADVANTAGE - Used particularly for the demineralisation of bone tissue to be used for implantatin or for the encouragement of new bone growth. Extn. can be controlled so as to achieve required processing in less time using less volume of soln. than in prior processes. The resulting processed bone can be frozen and kept in the column without further handling.

Dwg.1/16

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=> file home
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L21

FILE 'HOME' ENTERED AT 12:15:12 ON 07 JUL 1997

0 SEA L6 AND L11

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(FILE 'HOME' ENTERED AT 11:05:58 ON 07 JUL 1997)
     FILE 'LCA' ENTERED AT 11:06:46 ON 07 JUL 1997
             90 SEA BONEMARROW? OR MARROW?
L1
L2
              O SEA L1(3A) (REMOV? OR DETACH? OR WITHDRAW? OR EXTRACT? OR
                EXT# OR EXTRICAT? OR EXCIS? OR EJECT? OR UNFASTEN? OR DIS
                CONNECT? OR DISENGAG? OR STRIP OR STRIPS OR STRIPPED OR S
                TRIPPING# OR FLUSH? OR IRRIGAT? OR PURG? OR CLEAN? OR RIN
                S? OR WASH? OR EXTIRPAT?)
              O SEA 1(3A) (ENUCLEA? OR EXCAVAT? OR DREDG? OR DERACINAT? OR
L3
                 ASPIRAT? OR SUCTION? OR (DRAW? OR SIPHON? OR SUCK?) (2W) (
                OFF OR OUT) OR DRAIN?)
              O SEA (L2 OR L3) AND BONE?
L4
            306 SEA SONIC? OR ULTRASONIC? OR ULTRASOUND? OR ULTRA(2W) SOUN
L5
                D?
                                      3/61.,549 .
     FILE 'WPIDS, BIOSIS, EMBASE, MEDLINE' ENTERED AT 11:17:11 ON 07 JUL
     1997
            163 SEA (L2 OR L3) AND BONE? 1017
L6
L7
           1246 SEA (L2 OR L3) AND BONE?
L8
           1327 SEA (L2 OR L3) AND BONE?
           1596 SEA (L2 OR L3) AND BONE?
L9
     TOTAL FOR ALL FILES
           4332 SEA L4
L10
          50508 SEA SONIC? OR ULTRASONIC? OR ULTRASOUND? OR ULTRA (2W) SOUN
L11
          60554 SEA SONIC? OR ULTRASONIC? OR ULTRASOUND? OR ULTRA (2W) SOUN
L12
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          60714 SEA SONIC? OR ULTRASONIC? OR ULTRASOUND? OR ULTRA (2W) SOUN
L13
          74758 SEA SONIC? OR ULTRASONIC? OR ULTRASOUND? OR ULTRA (2W) SOUN
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     TOTAL FOR ALL FILES
                                       62 ( 100 m 2 1
         246534 SEA L5
L15
           2596 SEA (BONE? OR MARROW?) (3A) (GRAFT? OR ALLOGRAFT? OR TRANSP
L16
                LANT? OR IMPLANT? OR AUTOGRAFT?; OR XENOGRAFT?)
          32810 SEA (BONE? OR MARROW?) (3A) (GRAFT? OR ALLOGRAFT? OR TRANSP
L17
                LANT? OR IMPLANT? OR AUTOGRAFT? OR XENOGRAFT?)
L18
          31509 SEA (BONE? OR MARROW?) (3A) (GRAFT? OR ALLOGRAFT? OR TRANSP
                LANT? OR IMPLANT? OR AUTOGRAFT? OR XENOGRAFT?)
          41106 SEA (BONE? OR MARROW?) (3A) (GRAFT? OR ALLOGRAFT? OR TRANSP
L19
                LANT? OR IMPLANT? OR AUTOGRAFT? OR XENOGRAFT?)
     TOTAL FOR ALL FILES
         108021 SEA (BONE? OR MARROW?): (3A) (GRAFT? OR ALLOGRAFT? OR TRANSP
L20
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LANT? OR IMPLANT? OR AUTOGRAFT? OR XENOGRAFT?)

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L22
              2 SEA L7 AND L12
              4 SEA L8 AND L13
L23
              2 SEA L9 AND L14
L24
     TOTAL FOR ALL FILES
L25
              8 SEA L10 AND L15
             22 SEA L11 AND L16
L26
             34 SEA L12 AND L17
L27
L28
             46 SEA L13 AND L18
             70 SEA L14 AND L19
L29
     TOTAL FOR ALL FILES
            172 SEA L15 AND L20
L30
     FILE 'LCA' ENTERED AT 11:28:01 ON 07 JUL 1997
           4937 SEA REMOV? OR DETACH? OR WITHDRAW? OR EXTRACT? OR EXT# OR
L31
                 EXTRICAT? OR EXCIS? OR EJECT? OR UNFASTEN? OR DISCONNECT
                ? OR DISENGAG? OR STRIP OR STRIPS OR STRIPPED OR STRIPPIN
                G# OR FLUSH? OR IRRIGAT? OR PURG? OR CLEAN? OR RINS? OR W
                ASH? OR EXTIRPAT?
            168 SEA ENUCLEA? OR EXCAVAT? OR DREDG? OR DERACINAT? OR ASPIR
L32
                AT? OR SUCTION? OR (DRAW? OR SIPHON? OR SUCK?) (2W) (OFF OR
                                     N/ 146, 110
                 OUT) OR DRAIN?
                **BIOSIS, EMBASE, MEDLINE' ENTERED AT 11:30:58 ON 07 JUL
     1997
                    BZO AND (L31 OR L32)
L34
              5 SEA L27 AND (L31 OR L32)
L35
             11 SEA L28 AND (L31 OR L32)
L36
             12 SEA L29 AND (L31 OR L32)
     TOTAL FOR ALL FILES
             36 SEA L30 AND (L31 OR L32)
L37
                   ENTERED AT 11:33:42 ON 07 JUL 1997
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L26 NOT L33

ENTERED AT 11:34:52 ON 07 JUL 1997 OR 1.1 1.2? C.

TERED AT 11:35:42 ON 07 JUL 1997

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FILE 'MEDLINE' ENTERED AT 11:36:39 ON 07 JUL 1997 L43 13 SEA L24 OR L36 L44 58 SEA L29 NOT L43 E BONE MARROW PURGING/CT L45 939 SEA "BONE MARROW PURGING"+NT/CT E BONE MARROW/CT 56219 SEA "BONE MARROW"+NT/CT L46 L47 10133 SEA L46 (L) TRANSPLANTATION/CT

.32)

E SONICATION/CT 1333 SEA SONICATION+NT/CT L48 E ULTRASONICS/CT L49 29457 SEA ULTRASONICS+NT/CT E VIBRATION/CT L50 8156 SEA VIBRATION+NT/CT E BONE MARROW TRANSPLANTATION/CT 21917 SEA "BONE MARROW TRANSPLANTATION"+NT/CT L51 L52 7 SEA (L45 OR L47 OR L51) AND (L48 OR L49 OR L50)

* titles and selected abstracts FILE 'HOME' ENTERED AT 11:46:54 ON 07 JUL 1997

FILE 'HOME' ENTERED AT 12:15:12 ON 07 JUL 1997

FILE HOME

FILE LCA

LCA IS A STATIC LEARNING FILE -4/64645519

THIS FILE CONTAINS CAS REGISTRY NUMBERS FOR EASY AND ACCURATE SUBSTANCE IDENTIFICATION.

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE WPIDS

FILE LAST UPDATED: 02 JUL 97

>>>UPDATE WEEKS:

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MOST RECENT DERWENT WEEK

1) AND (1.3 <199727/DW>

DERWENT WEEK FOR CHEMICAL CODING:

DERWENT WEEK FOR POLYMER INDEXING: 9724

DERWENT WORLD PATENTS INDEX SUBSCRIBER; FILE, COVERS 1963 TO DATE >>> D COST AND SET NOTICE DO NOT REFLECT SUBSCRIBER DISCOUNTS -

OK SEE HELP COST FOR DETAILS <<<

>>> PCT PUBLICATIONS FROM 19 DECEMBER 1996 - SEE NEWS <<<

FILE BIOSIS

FILE COVERS 1969 TO DATE.

CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 3 July 1997 (970703/ED) CAS REGISTRY NUMBERS (R) LAST ADDED: 3 July 1997 (970703/UP)

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FILE EMBASE

FILE COVERS 1974 TO 2 Jul 1997 (970702/ED)

5721 1: 9724 1 1 E This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE MEDLINE

FILE LAST UPDATED: 30 JUN 1997 (19970630/UP). FILE COVERS 1966 TO +QLF/CT SHOWS YOU THE ALLOWABLE QUALIFIERS OF A TERM.

MEDLINE ANNUAL RELOAD AVAILABLE ON STN IN RECORD TIME (2/08/97). ENTER HELP RLOAD FOR DETAILS.

THIS FILE CONTAINS CAS REGISTRY NUMBERS FOR EASY AND ACCURATE SUBSTANCE IDENTIFICATION.

=> file wpids FILE 'WPIDS' ENTERED AT 12:16:05 ON 07 JUL 1997 COPYRIGHT (C) 1997 DERWENT INFORMATION LTD

FILE LAST UPDATED: 02 JUL 97 <970702/UP>

>>>UPDATE WEEKS:

MOST RECENT DERWENT WEEK 9727 <199727/DW>

DERWENT WEEK FOR CHEMICAL CODING: 9721

DERWENT WEEK FOR POLYMER INDEXING: 9724

DERWENT WORLD PATENTS INDEX SUBSCRIBER, FILE, COVERS 1963 TO DATE >>> D COST AND SET NOTICE DO NOT REFLECT SUBSCRIBER DISCOUNTS -

SEE HELP COST FOR DETAILS <<<

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QUALITIES.

>>> PCT PUBLICATIONS FROM 19 DECEMBER 1996 - SEE NEWS <<<

=> d 133 1-8 ibib abs

L33 ANSWER 1 OF 8 WPIDS COPYRIGHT 1997 DERWENT INFORMATION LTD

ACCESSION NUMBER: 94-316854 [39] WPIDS

DOC. NO. NON-CPI: N94-248841 C94-144352 DOC. NO. CPI:

TITLE: Compsn. of calcium-phosphate apatite crystals - has some chemical compsn. structure, short range order,

and index of crystallinity as apatite in bone and

is free of collagen fibrils.

D22 E33 P34 DERWENT CLASS: AL 150

GLIMCHER, M J; KIM, H; REY, C INVENTOR(S): PATENT ASSIGNEE(S): (CHIL-N) CHILDRENS MEDICAL CENT

COUNTRY COUNT: 22

PATENT INFORMATION:

721 PATENT NO KIND DATE

WO 9421556 A1 940929 (9439)* EN 33 RW: AT BE CH DE DK ES FR CB CB

RW: AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE

W: AU CA JP KR

AU 9464156 A 941011 (9504)

US 5439951 A 950808 (9537)

EP 690820 A1 960110 (9607) EN

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A A parties of

R: AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

US 5565502 A 961015 (9647) 12 JP 08510984 W 961119 (9708) 28

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 9421556	A1	WO 94-US3214	940324
AU 9464156	A	AU 94-64156	940324
US 5439951	A	US 93-36412	930324
EP 690820	A1	EP 94-911700	940324
		WO 94-US3214	940324
US 5565502	A CIP of	US 93-36412	930324
		US 95-409755	950324
JP 0851098	4 W	JP 94-521376	940324
		WO 94-US3214	940324

FILING DETAILS:

PATENT NO KIND P	ÁTEŃT ^S ÑÓ
EP 690820 A1 Based on W US 5565502 A CIP of U	0,2421556 1 0 9421556 S 5439951 0 9421556

PRIORITY APPLN. INFO: US 93-36412 930324

AN 94-316854 [39] WPIDS

AB WO 9421556 A UPAB: 941122

A compsn. of Ca-phosphate apatite crystals of the same chemical compsn., structure, short range order and index of crystallinity as the Ca-phosphate crystals present in bone selected from bone, cartilage, cementum, dentin and enamel is essentially free of collagen fibrils.

- LL Chill mi

USE - The biologically, naturally formed crystals of apatite are free of organic material and consists of highly uniform crystals w.r.t. chemistry, structure, size, shape and index of crystallinity. Further purificn. removes all organic material without disrupting the natural crystalline structure of the bone crystals. The crystals are useful in a variety of applications, including chromatographic sepn. and isolation of proteins and in medical and therapeutic applications, such as in the healing and repair of bone, replacement of bone with eventual formation of new bone in the defects and in coating of specific surfaces of artificial joints or teeth implanted in bone.

Dwg.0/1 13 5439951

ABEQ US 5439951 A UPAB: 950921 9421556
Calcium phosphate apatite crystals are isolated from bone, by (a) grinding clean bone pieces without water at liq. N2 temp. to size 200 microns; (b) sepg. crystals obtd. from collagen fibrils

a.d fold f
b.d fold f
b.d fold f
c.d fold f
d fold f
d fold f

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by sonication of the particles suspended in a non-aq.
solvent for the fibril at just above the solvent freezing point; and
(c) sepg. solvent and fibrils from the crystals.
```

Non-aq. solvent is less polar than methanol, and does not dissolved the crystal. Bone used comprises bone, cartilage, cementum, dentin, an enamel.

USE - In prodn. of an implant into gaps or areas of bone resorption.

Dwg.0/1

ABEQ US 5565502 A UPAB: 961124

Composition of calcium-phosphate apatite crystals essentially free of hydroxyl groups, and having essentially the same chemical composition, structure, short range order, and index of crystallinity as the calcium-phosphate crystals present in bone. The bone is selected from the group consisting of bone, cartilage, cementum, dentin, and enamel. Dwq.0/1

L33 ANSWER 2 OF 8 WPIDS COPYRIGHT 1997 DERWENT INFORMATION LTD

ACCESSION NUMBER:

94-304189 [38] WPIDS 94-358948 [45] 3/3/4,313

CROSS REFERENCE: DOC. NO. NON-CPI:

N94-281206

TITLE:

Ultrasonic device for removal

of osteal prostheses - has massive stainless steel body with collet with socket for hip prosthesis ball head with piezoelectric ceramic transducer exciting body.

DERWENT CLASS:

ounglious 1 P31 P32 S05 V06

INVENTOR(S):

BRADNOCK, B R D; YOUNG, M J R; BRADNOCK, B R D P

PATENT ASSIGNEE(S):

(BRAD-I) BRADNOCK B R D; (YOUN-I) YOUNG M J R; (ORTH-N) ORTHOSONICS LTD; (BRAD-I) BRADNOCK B R D P

COUNTRY COUNT:

PATENT INFORMATION:

NT	INFO	RMAT	: NOI			apatite ory	
				DATE		apatite ory lecutionly t LA paPG desp	
EP	6179 R:	935 AT	A2 BE CH	941005 I DE DK	(9438)* ES FR GE	ENGRE IT LI NL P	T SE
ΑU	9459	9069	A	940929	(9440)		
NO	9401	1109		940927			
				940926		26	
ZA	9402	2120) A	950426	(9522)	. 26	
EP	6179	935	A 3	941221	(9537)	, x 4	
US	5536	5272	A	960716	(9634)	12	
US	5626	5584	A	970506	(9724)	13, Killia	
ICA'	TION	DEI	AILS:			Louis - Los Cuiph bush	
PA	TENT	NO	KIND)		APPLICATION	DATE

APPLI

EP 617935 A2 EP 94-302231 940329

19 B & D: (*)

ΑU	9459069	A		AU	94-59069	940328
NO	9401109	Α		NO	94-1109	940325
CA	2119969	Α		CA	94-2119969	940325
ZA	9402120	A		ZA	94-2120	940325
EP	617935	A 3		EP	94-302231	940329
US	5536272	Α		US	94-216805	940323
US	5626584	Α	Div e	ex US	94-216805	940323
				US	95-422988	950417

FILING DETAILS:

PATENT NO	KIND	PATENT' NO
US 5626584	A Div ex	US 5536272

930326; US 94-216805 940323 PRIORITY APPLN. INFO: GB 93-6380

94-304189 [38] AN WPIDS

94-358948 [45] CR

AB 617935 A UPAB: 970516

The device comprises a relatively large mass stainless steel annular body (10) with a cylindrical bore (11) which is slightly convergent downwardly, for coaction with a chuck or collet (12). The lower end of the collet is longitudinally split by a slit (15) to form two fingers (16, 17) which have internal concave surfaces to engage with the ball head of a hip prosthesis, 94.2 199

The device is driven onto the ball head by hampering downwards. An electromechanical transducer (20) is externally secured to the periphery of the body to excite the body. The transducer has a central axis (21) of mechanical resonant frequency of 20 to 40 kHz and is of the piezoelectric ceramic variety.

USE/ADVANTAGE - Improved method of dislodging an osteal prosthesis from cemented installation in living bone in e.g revision arthroplasty. Minimises patient trauma.

Dwg.1/12

Paller is: UPAB: 960829 ABEQ US 5536272 A

The method of removing a bone-implanted 1992 prosthetic from an installed situs of cemented or bony-ingrowth retention within a living bone, wherein at least a portion of the prosthetic is externally exposed with respect to the bone, which method comprises the steps of:

- (a) selecting an annular body of a material capable of radial-mode resonant oscillation in the frequency range 20 kHz to 40 kHz, said body having a central axial bore of size to accommodate an exposed portion of the prosthetic real (b) securing the exposed portion of the prosthetic with
- substantially complete circumferential continuity within said bore; and
- (c) ultrasonically exciting said body into radial-mode oscillation by generally radially inwardly directing mechanical-displacement energy at a peripheral location on said body, said driving energy being imparted to said body within said

ada yar ada. 11. 11 P. 1 P. 1 . 3 2 3 4 2 4 3 tialid.

frequency range.

Dwg.9/13

ABEQ US 5626584 A UPAB: 970612

A tool for use in revision arthroplasty, wherein a prosthetic member to be removed is encumbered by bone cement and exposes a head adapted for assembled joint articulation, said tool comprising a circumferentially continuous annular body having a central bore, chuck means adapted for selectively locked engagement of an exposed prosthetic head to the bore of said body, and an ultrasonic driver having a central axis of mechanically resonant oscillation, said driver being connected to said body with its oscillation axis directed generally radially inward with respect to said central bore.

Dwg.1/13

L33 ANSWER 3 OF 8 WPIDS COPYRIGHT 1997 DERWENT INFORMATION LTD

ACCESSION NUMBER: 94-256132 [32] WPIDS

DOC. NO. NON-CPI: N94-201806

Non-invasive determination of dimensions and TITLE: strength of defective bone or tissue prior to

transplant operation - using computer tomography,

NMR, ultrasonics, X-rays or holographic

non-invasive investigation.

P31 P32 S05 DERWENT CLASS: KLIEGIS, U G INVENTOR(S):

PATENT ASSIGNEE(S): (MDCM-N) MDC MEDICAL DIAGNOSTIC COMPUTING GMBH

COUNTRY COUNT:

PATENT INFORMATION:

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PATENT NO KIND DATE WEEK LA LA LA PERSONAL CONTROL OF THE PROPERTY OF THE PROP PATENT NO KIND THE STATE OF ST

DE 4304572 A1 940818 (9432)* modia issaily aid body wit

APPLICATION DETAILS:

PATENT NO KIND APPLICATION DATE DE 93-4304572 930216 DE 4304572 A1

PPI.S

PRIORITY APPLN. INFO: DE 93-4304572 930216 i i AN 94-256132 [32] WPIDS tout is a light

DE 4304572 A UPAB: 940928 AB

DE 4304572 A UPAB: 940928 <u>lice in line</u> In a transplant operation, defective tissue or bone is removed and replaced by healthy tissues from elsewhere in the same organism or from a donor organism. Before the transplant is effected, the strength of the defective tissue or bone is established without any invasive operation, and this information is used in the manufacture or selection of the replacement transplant material.

The characteristics of the defective tissue or bone are

established by computer tomography, nuclear spin resonance, ultrasonics, X-rays and/or holographic images to form a layered series of images.

ADVANTAGE - Accurate match reduces probability of mis-match and associated problems.

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Dwg.0/0

L33 ANSWER 4 OF 8 WPIDS COPYRIGHT 1997 DERWENT INFORMATION LTD

ACCESSION NUMBER:

94-256130 [32] WPIDS

DOC. NO. NON-CPI:

N94-201804

TITLE:

Surgical instrument manipulating arm and computer control system - uses three-dimensional data model in computer to assist in reconciliation of previous

surgery and bone transplants.

DERWENT CLASS:

P31 S02 S05

INVENTOR(S):

KLIEGIS, U G; KLIEGIS, U

PATENT ASSIGNEE(S):

(MDCM-N) MDC MEDICAL DIAGNOSTIC COMPUTING GMBH;

(KLIE-I) KLIEGIS U G

COUNTRY COUNT:

PATENT INFORMATION:

3/645,5.9

PAT	CENT NO	KIND	DATE	WEEK	LA	PG	
EΡ	684/95	A1	951206	(9432)* (9436) (9602) (9704)	GE GE	16 13	.* .>

APPLICATION DETAILS:

PATENT NO KIND	APPLICATION	DATE
DE 4304570 A1	DE. 93-4304570	930216
WO 9418899 A1	WO 94-DE156	940215
EP 684795 A1	EP 94-906872	940215
	WO: 94-DE156	940215
JP 08508656 W	JP 94-518545	940215
	WO 94-DE156	940215
	OTCAL DISSUE	

FILING DETAILS:

B U G

PATENT NO

EP 684795 A1 Based on JP 08508656 W Based on

WO 9418899 WO 9418899

PRIORITY APPLN. INFO: DE 93-4304570 930216

AN

PATENT NO KIND

94-256130 [32] WPIDS 5 DE 4304570 A UPAB: 941102 AB

13 The positioning device (2) consists of a numerically controlled manipulation arm (4) with several degrees of freedom in a reference

> 1 10 91 1 1.5 112 0 56 57

coordinate system (6). On a static operating surface (8) the patient is fixed so that the operating area on the patient (10) is within the area of movement of the manipulation arm mounted (12) surgical instrument (16).

Movement of the arm (4) is under control of computer system (20) in which a 3-D model of the operating area (10) is stored. This 3-D data model is previously acquired using one or more techniques including computer tomography NMR tomography, ultrasound,

X-ray or biological investigation. If a bone transplant is performed, the insert (14) may be positioned using the arm while it is cemented in place.

USE/ADVANTAGE - Allows greater precision in surgery, esp. in

cranial surgery, where bone removal and transplantation is performed, and matching of removed/replaced bone sections is critical. Dwg.1/1

L33 ANSWER 5 OF 8 WPIDS COPYRIGHT 1997 DERWENT INFORMATION LTD

ACCESSION NUMBER: 94-109208 [13] WPIDS

DOC. NO. NON-CPI: N94-085407

8/645,200 DOC. NO. CPI: C94-050547

Removing thermoplastic or elastomeric TITLE:

cores e.g. implant bone cement

- in which a receptacle for the cores is mounted on

a handpiece in line with an ultrasonically

 $(m_{\mathcal{A}}) \cong (m_{\mathcal{A}}) = \mathbf{t}$

Cultile

vibrated tubular tip.

DERWENT CLASS:

A96 D21 P31
WUCHINICH, D G ONE STATE INVENTOR(S):

(SONO-N) SONOKINETICS GROUP PATENT ASSIGNEE(S):

COUNTRY COUNT: PATENT INFORMATION:

T INFORMATION:

PATENT NO KIND DATE WEEK LA PG

US 5300021 A 940405 (9413)*

1 9. 1

APPLICATION DETAILS:

APPLICATION DATE PATENT NO KIND US 5300021 A US 0 2 2 3 2 7 8 6 9 2 0 8 2 0

PRIORITY APPLN. INFO: US 92-932786 920820 AN 94-109208 [13] WPIDS

US 5300021 A UPAB: 940517 AB

Appts. for removing cores (26) of thermoplastic or elastomeric material comprises (a) a handpiece (17) provided with a longitudinally extending tube (18) of acoustically conductive material, (b) an ultrasonic transduced (19) acoustically coupled to the tube (18) for causing the tube to vibrate at an

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ultrasonic frequency whereby, upon engagement with the
    material, cores (26) thereof are removed and inserted into
    the tube (18), and (c) a receptacle (40) mounted on the handpiece
     (17) in line with the tube (18), and connected to a vacuum source
     (23) so that cores (26) of material inserted into the tube (18) are
    drawn along a substantially linear path...through the tube and into
    the receptacle (40).
         USE/ADVANTAGE - Esp. for removing bone cement (2)
    e.g. methylmethacrylate, after removal of a prosthetic
    implant (3), e.g. for a hip joint. The mounting of the receptacle
     (40) on the handpiece (17) and in line with the tube (18) eliminates
    the danger of blockage caused by cores of material lodging in any
    curved portions of the flexible tubing used to connect the tube (18)
    to a receptacle located on the floor e.g. of the operating theatre.
    Such a blockage could endanger the life of a patient on a life
    support system.
    Dwg.2/9
    ANSWER 6 OF 8 WPIDS COPYRIGHT 1997 DERWENT INFORMATION LTD
L33
ACCESSION NUMBER:
                     91-177834 [24] WPIDS
                     N91-136238 3/646,819
DOC. NO. NON-CPI:
TITLE:
                     Ultrasonic method for bone cement
                   removal - melting and aspirating
                     cement from cavity for prosthetic bone
                   implant repairs or replacements.
DERWENT CLASS:
                     P31 P33 S05
                                    Committee Committee Committee
                     WUCHINICH, D G (SONO-N) SONOKINETICS (SONO-N) SONOKINETICS
INVENTOR(S):
PATENT ASSIGNEE(S):
                     GROUP; (SONO-N) SONOKINETICS GROUP
COUNTRY COUNT:
                                    Levilley Denos
PATENT INFORMATION:
                                    4. C. A. C. A
                                  LA PG
    PATENT NO KIND DATE WEEK
    GUIES II he
    WO 9107138 A 910530 (9124)*
       RW: AT BE CH DE DK ES FR GB GR IT LU NL SE
        W: AU CA FI JP KR NO
                                    ne lite of a
    AU 9169510 A 910613 (9137)
    EP 500803 A1 920902 (9236) EN 47
        R: AT BE CH DE DK ES FR GB GR IT LI LU NL SE
    US 5167619 A 921201 (9251)
    US 5176677 A 930105 (9304)
                                    1.20
    JP 05501661 W 930402 (9318)
    EP 500803 A4 921216 (9524)
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                                   , and a plant
APPLICATION DETAILS:
                                    Tay tor pro-
                                   APPLICATION
    PATENT NO KIND
                                                  DATE
    EP 500803 A1
                                   WO 90-US6737 901116
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EP 91-901114

1	US	5167619	Α	CIP of	US	89-439114	891117
					US	90-529029	900525
1	US	5176677	Α		US	89-439114	891117
į	JP	05501661	W		WO	90-US6737	901116
					JP	91-501489	901116
1	FD	500803	Δ1	·	ED	.9.1 - 9.0.1.1.14	

FILING DETAILS:

PATENT NO	KIND	PATENT NO
	A1 Based on 1 W Based on	WO 9107138 WO 9107138

PRIORITY APPLN. INFO: US 89-439114 891117; US 90-529029 900525

AN 91-177834 [24] WPIDS

AB WO 9107138 A UPAB: 930928

The method removes cement(2) from bone or bone cavities(4), by applying ultrasonic vibration. A hollow elongated tool(6) is associated with the vibration source to melt or shear the residual cement. Concentric tubes(11) are employed under suction to aspirate the cement particles for

collection in a cannister(14), typically fitted with a trap(13).

Th ViC mY iliOn8llY llow h Virting toole 0 oolt to facilitate removal of the cement.

US 89 43 114

USE/ADVANTAGE - For removal of bone cement in periodic repair and replacement of prosthetic bone implants, while minimising risk of damage to bone itself.

ABEQ US 5167619 A UPAB: 930928

The surgical appts. has a handpiece, a vibration source with the handpiece for generating mechanical vibrations in response to current and an elongated hollow tool operatively associated with the vibration source and attached to the handpiece at a point where essentially no vibrational motion occurs. The tool extends away fromt he handpiece to the cement to be removed. Cement is

removed using the surgical appts. by applying the tool to the cement and applying mechanical vibration to the cement causing the cement to melt. Removing the cement by suction through the hollow elongated tool.

Additional alternate steps include rotating the tool to apply shear forces to the cement being removed, cooling and damping lateral vibrations at the tool end, and irrigating the cement while melting and removing it. Associated with the alternate steps are embodiments of the appts. including a motor for rotating the elongated tool while vibrating and a concentric tubular members for cooling, damping, irrigation and aspiration.

USE/ADVANTAGE - Removing bone cement during replacement and repair of prosthetic bone implants, increased rate of removal of cement without increasing

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possibility of damage to surrounding bone.
     1/6
ABEQ US 5176677 A
                   UPAB: 930928
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The surgical instrument comprises a vibration source within a handpiece for generating mechanical vibrations in response to current applied to it. An elongated-tool-is operatively associated with the vibration source and attached to the handpiece at a point where no vibrational motion occurs. The tool extends away from the handpiece to a work site. Vibration of the tool causes disintegration and removal of hydrated biological material.

A rotor is connected to the vibration source at the point where no vibrational motion occurs, for rotating the vibrational source and elongated tool about their circumference through at least one revolution. The rotor enables the elongated tool to remove non-hydrated biological material. The work site is irrigated with fluid to assist in withdrawing removed biological material. An aspiration unit withdraws

irrigation fluid and removed biological material from the work site.

USE - Endoscopic ultrasonic rotary - S electro-cauterising asprator. 1/12 laing bone.

WPIDS COPYRIGHT 1997 DERWENT INFORMATION LTD L33 ANSWER 7 OF 8

ACCESSION NUMBER: 88-105399 [15] s WPJDS DOC. NO. NON-CPI: N88-079934 cal vibratio

TITLE:

Hand-held device for extracting or inserting bone-related implants

> - uses train of sonic pulses to oscillate article relative to bone producing interfacial

micro-fracture without bone damage.

DERWENT CLASS: P31 P32 S05

HELLER, F G INVENTOR(S):

HELLER, F G (DICE-I) DICECCA C A; (DIDE-I) DIDECCA C A PATENT ASSIGNEE(S):

COUNTRY COUNT: 13 sireamina and a PATENT INFORMATION: re esting truck

LA PG PATENT NO KIND DATE WEEK

WO 8802246 A 880407 (8815) * EN 36 RW: AT BE CH DE FR GB IT LU NL SE

W: JP US

EP 287614 A 881026 (8843) EN Exertally

R: AT BE CH DE FR GB IT LI LU NL SE

APPLICATION DETAILS:

APPLICATION PATENT NO KIND DATE -------WO 87-US2496 870928 WO 8802246 A

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* 1957 Dirinad

EP 287614 A

EP 87-906885 870928

PRIORITY APPLN. INFO: US 86-912360

88-105399 [15] WPIDS AN

AB WO 8802246 A UPAB: 930923 Laideden willeber milmer mit me blimm

A mating fixture is attached and secured to the article and a series or train of sonic pulses is applied to the fixture with a hand-held tool. The pulses exert force only in a prescribed direction parallel to the direction of removal.

The waveshape of the force pulses can be adjusted in frequency and amplitude to effect incremental removal of a bone-related article without damaging the bone. In soma cases the article oscillates relative to the bone and microfractures are produced at the interface between article and bone.

The pulses may be in the form of small hammer blows produced by a mass surrounding a tubular electrical conductor, in turn surrounded by a coil connected to an electrical pulse generator.

USE/ADVANTAGE - Surgical implant, prostheses, dental restoration, etc. Ensures easy removal of implants. .c/615,\$...o

L33 ANSWER 8 OF 8 WPIDS COPYRIGHT 1997 DERWENT INFORMATION LTD

WPIDS 83-A2391K [01] ACCESSION NUMBER:

DOC. NO. NON-CPI: N83-003159

TITLE: Method of covering bone-air cavity defects - by

filling cavity with balloon holding working medium

before applying bone-glue composition.

DERWENT CLASS: P31

MISHENKIN, N V; MOZGOVOI, I V; PEDDER, V V INVENTOR(S):

(OMME) OMSK MED INST; (OMPO) OMSK POLY PATENT ASSIGNEE(S):

COUNTRY COUNT: icrof " ...

PATENT INFORMATION:

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LA PG the be PATENT NO KIND DATE WEEK 21 000520 B 00005 (0001) # 100 m30 8 m30 8

SU 906530 B 820225 (8301) * a gr<mark>2</mark> ke sa ar.

J. S. C. F. St. . 1 1 Strical con-

800612 PRIORITY APPLN. INFO: SU 80-2937767

AN

83-A2391K [01] WPIDS 12.02 62 35

AB SU 906530 B UPAB: 930925

The method of making up defects of bone air cavities involves filling in the defect with a bone transplant and then filling in the space between the edges of the defect and the transplant with a composition of bone tissue and glue which is then subjected to treatment with ultrasound.

In order to prevent displacement of the bone transplant fitted in the defect and to prevent the composition of bone tissue and glue getting into the cavity, first,

Editorial, 2

before the composition of bone tissue and glue is applied, a container of changeable volume is introduced into the cavity through an additional aperture and then filled with working medium.

Once the operation of covering up the defect has been completed, the working medium is **drained** from the container, which then deflates and hence-reduces in size, allowing it to be **withdrawn** from the cavity without difficulty. Bul.7/23.2.82.

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- L38 ANSWER 1 OF 14 WPIDS COPYRIGHT 1997 DERWENT INFORMATION LTD Prepn. of bones for transplantation by measurement of the rate of propagation of ultrasound through the bone during prepn..
- L38 ANSWER 2 OF 14 WPIDS COPYRIGHT 1997 DERWENT INFORMATION LTD Ultrasonic bone healing appts. for dental use enhances osseointegration of implant in jaw-bone using ultrasonic waves from piezoelectric transducers encapsulated in cast which surrounds treatment/area.
- L38 ANSWER 3 OF 14 WPIDS COPYRIGHT 1997 DERWENT INFORMATION LTD

 TI Orthopaedic prosthesis incorporating microporous membrane which
 covers the junction between prosthesis and bone preventing
 degeneration due to the ingress of submicron wear particles.
- L38 ANSWER 4 OF 14 WPIDS COPYRIGHT 1997 DERWENT INFORMATION LTD Treatment of rota-virus infection and diarrhoea with human milk prods of partic value for infants, or elderly or immuno-compromised patients.
- L38 ANSWER 5 OF 14 WPIDS COPYRIGHT 1997 DERWENT INFORMATION LTD

 TI Bonding bioactive silicate glass ceramic onto titanium implant by electrophoretic sepn. from non aq. suspension of powdered bio glass and heating.
- L38 ANSWER 6 OF 14 WPIDS COPYRIGHT 1997 DERWENT INFORMATION LTD Cutting slit in jaw-bone for oral implant involves disc with saw teeth which is vibrated at ultrasonic frequency.
- L38 ANSWER 7 OF 14 WPIDS COPYRIGHT 1997 DERWENT INFORMATION LTD Prepn. of synthetic bone transplant from hydroxy-apatite salt or beta-tri calcium phosphate, gelatin or collagen, water, antibiotics and sulphanilamide.
- L38 ANSWER 8 OF 14 WPIDS COPYRIGHT 1997 DERWENT INFORMATION LTD Electro-stimulation treatment for bone fractures uses electrical pulses to create an electrical field near a fracture which improve osteogenesis and regeneration of tissue.

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2 1527 1 1 1

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- ANSWER 9 OF 14 WPIDS COPYRIGHT 1997 DERWENT INFORMATION LTD L38 Bone fracture unit assessment appts. - detects changes in TI transmission of vibration from one point to another in bone using continuous wave Doppler ultrasonic probes.
- ANSWER 10 OF 14 WPIDS COPYRIGHT 1997 DERWENT INFORMATION LTD L38 Bone transplant for joining congenital cleft ΤI palate - by wing formation insertion in gap between vomer and palate plates.

to a secondary the

- ANSWER 11 OF 14 WPIDS COPYRIGHT 1997 DERWENT INFORMATION LTD L38 Fixing bio-tissue of different structure and density - by dissecting ΤI fibrous insert in bone before ultrasonic treatment.
- COPYRIGHT 1997 DERWENT INFORMATION LTD L38 ANSWER 12 OF 14 WPIDS Trepanation cavity plastic surgery - by forming two bone TI transplants, joining, treating with ultrasound and placing in cavity.
- ANSWER 13 OF 14 WPIDS COPYRIGHT 1997 DERWENT INFORMATION LTD L38 Attaching biological tissues to bone bed - making conical support ΤI recesses holding fibrous inserts whose projections enter transplants apertures. T 1537 Dat Co
- ANSWER 14 OF 14 WPIDS COPYRIGHT 1997 DERWENT INFORMATION LTD L38 TI Synthetic bone for transplantation prepn. moulded from bone powder in ultrasonic vibration field, using additives. ar 1007 to in

=> d 138 4,11,12 ibib abs

L38 ANSWER 4 OF 14 WPIDS COPYRIGHT 1997 DERWENT INFORMATION LTD ACCESSION NUMBER: 94-166997 [20] WPIDS

DOC. NO. CPI:

C94-076483

TITLE:

C94-076483
Treatment of rota-virus infection and diarrhoea with human milk prods - of partic value for infants, or elderly or immuno-compromised patients.

DERWENT CLASS:

INVENTOR(S):

NEWBURG, D S; PETERSON, J A; YOLKEN, R H

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This is going

PATENT ASSIGNEE(S):

(CANC-N) CANCER RES FUND CONTRA COSTA; (UYJO) UNIV

JOHNS HOPKINS SCHOOL MED; (SENO-N) SENOMED INC

COUNTRY COUNT:

PATENT INFORMATION:

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LA PG PATENT NO KIND DATE WEEK

44

B04 D13

WO 9409651 A1 940511 (9420)* EN, 36, RW: AT BE CH DE DK ES FR GB GR IE, IT, LU MC NL OA PT SE

W: AT AU BB BG BR BY CA CH CZ DE DK ES FI GB HU JP KP KR KZ LK LU MG MN MW NL NO NZ PL PT RO RU SD SE SK UA US VN

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AU 9458961 A 940524 (9434) EP 665721 A1 950809 (9536) EN R: BE DE DK ES FR GB GR IT NL PT SE US 5505955 A 960409 (9620) 12

APPLICATION DETAILS:

PATENT NO KIND	NT NO KIND APPLICATION	
WO 9409651 A1	WO 93-US10732	931029
AU 9458961 A	WO 93-US10732	931029
	AU 94-58961	931029
EP 665721 A1	WO 93-US10732	931029
	EP 94-905313	931029
US 5505955 A Cont of	US 92-969949	921030
	US 95-378865	950123

FILING DETAILS:

P	ATENT	NO 1	KIND)		PAT	TENT NO	
A	U 9458	961	 А	Based	on		9409651	
E	P 6657	21	A1	Based	on	WO	9409651	

PRIORITY APPLN. INFO: US 92-969949 921030; US 95-378865 950123 AN 94-166997 [20] WPIDS 13 AB WO 9409651 A UPAB: 950927

Method of retarding onset of, or countering, rotavirus infection of a mammalian cell, comprising contacting with an agent selected from defatted human milk fat globule, human milk macromolecular fraction, skim milk, curd, whey, human milk mucin: 70 kD glycoprotein/46 kD glycoprotein (both approx. M.wt) complex, 46 kD glycoprotein, a polypeptide contg. an amino acid sequence having the rotavirus binding specificity of the 46 kD glycoprotein, or their mixts. is new. Also new, but related, is an antidiarrhoeal prod. comprising a foodstuff and agent(s) above.

USE - Rotavirus infection has been identified as the most important factor in gastroenteritis and diarrhoea, partic. in the very young, but also in the elderly (e.g., in nursing home and day centre outbreaks), the immuno comprised (from genetic deficiency, deliberate suppression, as in bone marrow or organ transplant, or from disease, e.g., AIDS), or their contacts as in travel or in carers. Conveniently the antidiarrhoeal compsn. is packaged in the form of a kit for self-admin., with foodstuff (which includes drink) and agent in separate sterile containers and instructions for use.

In an example, whole human milk was freeze/thaw cycled and sonicated to disrupt fat globules, which were sepd. by centrifugation and glass wool filtration. The 40-300 kD fraction was sepd. from the skim milk by ultrafiltration membrane and dialysis. The mucin complex was then isolated by affinity chromatography using

Adding the same

monoclonal antibody Mc5 on CNBr activated Sepharose beads, with elution by Na isocyanate, then conc. by dialysis. This mucin complex inhibited infection of MA-104 cells by simian SA-11 virus at a concn. of 0.1 micro-g/ml, a 3000-fold increase in specific activity over whole milk. Dwg.0/0

ABEQ US 5505955 A UPAB: 960520

An anti-diarrheic product, comprising

a foodstuff, and

as the active ingredient dispersed in a matrix of the foodstuff, an anti-rotaviral infection effective amount of an agent of human milk origin selected from the group consisting of defatted human milk fat globule, the human milk macromolecular fraction, the human milk mucin-70 Kd apparent MW_glycoprotein-46 Kd apparent MW HMFG glycoprotein complex, the 46 Kd apparent MW HMFG glycoprotein, a polypspride comprising an amino acid sequence having the rotavirus-binding specificity of the 46 Kd apparent MW HMFG glycoprotein, and mixtures thereof. Dwg.0/0

ANSWER 11 OF 14 WPIDS COPYRIGHT 1997 DERWENT INFORMATION LTD L38

ACCESSION NUMBER:

DOC. NO. NON-CPI:

DOC. NO. CPI:

TITLE:

84-235753 [38] C84-099632 Estimated in

Fixing bio-tissue of different structure and density - by dissecting fibrous insert in bone

before ultrasonic treatment.

DERWENT CLASS:

D22 P31

INVENTOR(S):

PATENT ASSIGNEE(S):

COUNTRY COUNT:

PATENT INFORMATION:

MISHENKIN, N V; MOZGOVOI, I V; PEDDER, V V (OMCL-R) OMSK CLINIC HOSP; (OMPO) OMSK POLY

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Backer Ded in a and <u>Salagor</u> (1996)

PATENT NO KIND DATE WEEK LA PG. SU 1068107 A 840123 (8438)*

APPLICATION DETAILS:

PATENT NO KIND APPLICATION DATE -----

SU 1068107 A SU 80-3213268 801205

PRIORITY APPLN. INFO: SU 80-3213268 801205

AN 84-235753 [38] WPIDS

AB SU 1068107 A UPAB: 930925

A layer of fibrous structure is accomplished on the surface of the fibrous inserts by dissecting the inserts (from the side of combination with the transplant and before the initiation of the ultrasonic treatment) to a depth comparable with the

11 120 1.)...;

thickness of the transplant and the size of the transverse sections of each fibre. As previously, supporting nests are formed in the bone stock. They are filled with fibrous inserts before fixing connecting-tissue transplant of the relative bone stock by fixing-sutures with the aid of ultrasonics.

USE/ADVANTAGE - Increased strength of fixing-sutures, esp. in medical combination of biological tissue using **ultrasonic** energy.

Typically, the proposed method gives max. strength of tissue combination and considerably reduces thermodestruction of the combination zones. Bul.3/23.1.84.

L38 ANSWER 12 OF 14 WPIDS COPYRIGHT 1997-DERWENT INFORMATION LTD

ACCESSION NUMBER: 83-H4106K [22] WPIDS

DOC. NO. NON-CPI: N83-096504

TITLE: Trepanation cavity plastic surgery - by forming two

bone transplants, joining,

treating with ultrasound and placing in

cavity.

DERWENT CLASS: P31 4/646,7 cm

INVENTOR(S): TSYCANOV, A I; ZAPOROSHCH, A Y U

PATENT ASSIGNEE(S): (KIOT-R) KIEV OTOLARINGOLOGY

COUNTRY COUNT: 1

PATENT INFORMATION:

i fillicova inc

PRIORITY APPLN. INFO: SU 79-2783482 790625

AN 83-H4106K [22] WPIDS

AB SU 946522 B UPAB: 930925

The method of trepanation cavity plastic surgery after a common cavity operation on the ear involves opening the cavity, separating off the epidermal layer covering the wall of the trepanation cavity and restoring the osseous back wall of the auditory meatus.

Two restore the tympanic cavity's osseous walls, two

bone transplants are formed corresponding in size

and form to the exterior auditory meatus' back wall and the attic's lateral wall, then joined to each other using grooves, treated with ultrasound at 26.5kHertz-28.5kHertz frequency and

0.04-0.08mm amplitude for a period of 3-6 seconds and placed in the trepanation cavity. Bul.28/30.7.82.

=> file biosis

FILE 'BIOSIS' ENTERED AT 12:22:45 ON 07 JUL 1997

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FILE COVERS 1969 TO DATE. CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 3 July 1997 (970703/ED)
CAS REGISTRY NUMBERS (R) LAST ADDED: 3-July 1997 (970703/UP)

=> d 139 1-7 ti so ab

- L39 ANSWER 1 OF 7 BIOSIS COPYRIGHT 1997 BIOSIS
- TI Influence of marrow on ultrasonic velocity and attenuation in bovine trabecular bone.
- SO Calcified Tissue International 58_(5)...1996... 362-367. ISSN: 0171-967X
- Measurements of ultrasonic velocity and specific AB differential attenuation (SDA) were obtained on 24 bovine trabecular bone specimens from the femoral condyles. The measurements were obtained using two pairs of ultrasonic transducers, one with a low nominal center frequency (500 kHz) and the other pair with a high nominal center frequency (15 MHz). The ultrasonic velocity and specific differential attenuation associated with the bone samples were determined both with and without marrow, i.e., replacing the marrow with water in the pores of the trabecular bone. Significant increases (2.1% and 2.9%) in the velocity of ultrasound were observed after removal of the marrow, for the low and high frequency transducer pairs, respectively. In contrast, significant decreases (-6.5% and -8.8%) in SDA were observed after removal of the marrow, for the low and high frequency transducer pairs, respectively. The bone densities (BD) of the samples were also determined using single photon absorptiometry (SPA). Correlations between ultrasonic parameters and bone densities for samples both with and without marrow were found to be similar. For example, for the 1 MHz transducer pair, the correlation between BD and velocity was r = 0.86 with marrow, and r = 0.89 without marrow. This study also compared the results obtained using a contact (no water bath) technique and an insertion; (with a water bath) technique of ultrasonic measurements. For the high frequency transducer pair, the correlation coefficients between the two methods were r = 0.99 and r = 0.93, for the velocity and specific differential attenuation, respectively. Similar results were found for the low frequency transducer pair as well. In addition, approximately equal correlations between BD and ultrasonic velocity and SDA were also found, indicating that contact and insertion measurements provide essentially equivalent information.
- L39 ANSWER 2 OF 7 BIOSIS COPYRIGHT 1997 BIOSIS
- TI Papillary thyroid carcinoma after total body irradiation.
- SO Archives of Disease in Childhood 71 (3) 1994. 256-258. ISSN: 0003-9888

Control of the Contro

- AB Two children developed papillary thyroid carcinoma after allogeneic bone marrow transplantation (BMT) probably due to radiotherapy during remission and pretransplantation conditioning. Establishing a relationship between the cellular thyroid stimulating hormone (TSH) effect and development of carcinoma in cases with high serum TSH concentrations is difficult. After BMT, patients should be regularly followed up with thyroid ultrasound and, when nodularity is found, fine needle aspiration and/or open biopsy are recommended.
- L39 ANSWER 3 OF 7 BIOSIS COPYRIGHT 1997 BIOSIS
- TI REPOSITIONING OF THE FRACTURED POSTERIOR' SURFACE OF THE VERTEBRAL BODY UNDER INTRAOPERATIVE ULTRASOUND GUIDANCE.
- SO UNFALLCHIRURG 96 (2). 1993. 88-92. CODEN: UNFAE2
- The question of whether fragments of the posterior vertebral surface AB have to be removed in every case remains to be answered. Nevertheless, in many cases it is important to establish the situation inside the spinal canal intraoperatively. To this end we have used intraoperative ultrasound in 21 cases. The results have always corresponded closely with the findings of preoperative and postoperative computed tomography. Under the influence of this method we have modified our operative procedure. The technique of intraoperative ultrasound and our current operative practice are described in the present paper. We use typical cases to show that intraoperative ultrasound of the spinal canal is a very useful technique for several reasons: Accurate depiction of the spinal canal is always possible without destabilizing the dorsal vertebral structures. The risks and disadvantages of intraoperative myelography are avoided. The method is easy and can be repeated as often as desired, an important advantage in checking the success of the removal of fragments and in reviewing the situation after transpedicular cancellous bone grafting.
- L39 ANSWER 4 OF 7 BIOSIS COPYRIGHT 1997 BIOSIS
- TI A STUDY OF HARD TISSUE FORMATION IN RAT DENTAL PULP PERIODONTAL LIGAMENT AND BONE MARROW IN-VIVO
 TRANSPLANTATION AND ALKALINE PHOSPHATASE ACTIVITY.
- SO SHIKWA GAKUHO 92 (9). 1992. 1261-1274. CODEN: SHGKA3 ISSN: 0037-3710
- AB The purpose of this study was to investigate hard-tissue formation in rat dental pulp, periodontal ligament, and bone marrow autografted into muscle. Both the alkaline-phosphatase on histological sections were investigated. Materials and methods: Autograft study Incisors and femurs were removed from Sprague-Dawley rats; and, from them, transplants of dental pulp, periodontal ligament, and bone marrow were prepared and autografted into the rectus abdominal muscle. The animals were sacrificed after 1 or 2 months, and the transplants and their surrounding tissues were removed and fixed in formo-methanol for 24 hours. After specimens were embedded paraffin, serial sections were cut and were examined under an optical

len äs è, ilu - ch unchi 1....i microscope. Localization of alkaline phosphatase on histological section The Azo-dyeing system and immunohistochemistry entailing ABC methods with an antibody of alkaline phosphatase were employed to investigate the localization of alkaline phosphatase on histological sections made from three kinds of experimental tissues. Assay of alkaline phosphatase activity Alkaline phosphatase activity of the 3 tissues was assayed with p-nitrophenyl phosphate (p-NPP) as a substrate. Tissues were collected with 0.2% NP-40 in 1 mM MgCl2 buffer and homogenized for 60 seconds in a sonication machine. After the homogenate was centrifuged, the upper suspension only was incubated for 60 minutes at 37.degree. C. The optical density of the reaction product was read spectrophotometrically at 410 nm. Results were expressed as the amount of p-nitrophenol (p-NP) released. results: Autograft study Dental pulp; Both 1 and 2 months after the operation, all the transplants exhibited hard tissue that consisted mainly of bone or osteodentin and a small amount of cartilage in the middle area of the transplants. There was no tubular dentin. Periodontal ligament; All the transplants were encapsulated with fibrous connective tissue. A month after the operation, a small amount of bone-like tissue was observed in 2 of 10 transplants. Two months after the operation, such tissue was found in 4 of 8 transplants. These new hard tissues were deposited on the transplanted tooth, which was sometimes resorpted by multinuclear giant cells. Bone marrow: After the operation, the area of bone-marrow transplants grew indistinct. A month after the operation, however, a small amount of fibrous bone was found in 2 of 10 transplants. Two months after the operation, lamellar bone was found in 4 of 8 transplants. These newly formed hard tissues were encapsulated with fibrous connective tissue demonstrating a few small round-cell infiltrations composed mainly of lymphocytes. Localization of alkaline phosphatase on histological sections. When immunohistochemical methods were employed, odontoblast layers were strongly positive. When Azo-dying methods were used, however, groups of cells immediately below the odontoblast layers demonstrated a much stronger positive reaction in dental-pulp tissue. The osteoblastic layer of the periodontal-ligament space and bone-marrow endosteal layer too were strongly positive. Assey of alkaline phosphatase activity Dental-pulp tissue demonstrated a higher alkaline phosphatase activity than the tissues of the periodontal ligament and the bone marrow. Muscle tissue revealed practically no activity. Conclusion: Dental-pulp tissue demonstrated the highest percentage of osteogenesis and the greatest in vivo alkaline phosphatase activity. The next two greatest degrees of this activity occurred in the periodontal, ligament and the bone marrow. The cells of these three kinds of tissues can be termed osteogenic-fibroblasts capable of generating proper new hard tissue when requisite environment and stimuli are provided in vivo.

L39 ANSWER 5 OF 7 BIOSIS COPYRIGHT 1997 BIOSIS
TI A NEWLY RECOGNIZED FASTIDIOUS GRAM-NEGATIVE PATHOGEN AS A CAUSE OF FEVER AND BACTEREMIA.

Maria de Arriga. Maria de Arriga. Maria de Arriga de Arriga.

- SO N ENGL J MED 323 (23). 1990. 1587-1593. CODEN: NEJMAG ISSN: 0028-4793
- Background: We identified a motile, curved, gram-negative bacillus as AB the cause of persistent fever and bacteremia in two patients with symptomatic human immunodeficiency virus infection. The same organism was subsequently recovered from a-bone marrowtransplant recipient with septicemia and from two immunocompetent persons with week-long febrile illnesses. All the patients recovered after antimicrobial therapy. Methods and Results: Primary cultures of blood processed by centrifugation after blood-cell lysis yielded adherent, white, iridescent, morphologically heterogeneous colonies in 5 to 15 days. Subcultures grew in four days on chocolate, charcoal-yeast extract, or blood agar. The organisms stained weakly with safranin_and_were not acid-fast. Fluorescent-antibody tests for legionella and francisella were negative. Biochemical reactivity was minimal and difficult to ascertain. Agar-dilution testing revealed in vitro susceptibility to most antimicrobial agents tested. The cellular fatty acid composition of the isolates was similar, resembling that of Rochalimaea quintana or brucella species, but not Helicobacter pylori or species of campylobacter of legionella. As resolved by gel electrophoresis, cell-membrane preparations of all isolates contained similar proteins, with patterns that differed from that of R. quintana. Patterns of digestion of DNA from all isolates by EcoRV restriction endonuclease were virtually identical and also differed from that of R. quintana. On immunodiffusion, serum from one convalescent patient produced a line of identify with sonicates of all five isolates. Conclusions: This pathogen may have been unidentified until now because of its slow growth, broad susceptibility to antimicrobial agents, and possible requirement of blood-cell lysis for recovery in culture. It should be sought as a cause of unexplained fever, especially in persons with defective cell-mediated immunity.
- L39 ANSWER 6 OF 7 BIOSIS COPYRIGHT 1997 BIOSIS
- TI ANTIBODY RESPONSE TO STAPHYLOCOCCUS-AUREUS SURFACE PROTEINS IN RABBITS WITH PERSISTENT OSTEOMYELITIS AFTER TREATMENT WITH DEMINERALIZED BONE IMPLANTS.
- SO INFECT IMMUN 57 (2). 1989. 404-412. CODEN: INFIBR ISSN: 0019-9567
- AB A rabbit model was used to study the effect of allogeneic demineralized bone powder (DBP) implants on the persistence of S. aureus osteomyelitis. Thirty-one rabbits with chronic osteomyelitis of the tibia established by day 21, were started on systemic antibiotics followed by either no additional treatment or debridement plus either DBP (with or without supplemental antibiotics) or supplemental antibiotics only. On day 2, cultures showed a mean of 2 .times. 104 CFU/mg of debrided osseous material. By day 70, the treatment most effective in clearing infection was found in animals treated with supplemental antibiotics only (mean of 142 .+-. 116 CFU/mg). In contrast, infection persisted at a 7- to 10-fold-higher level in animals receiving DBP with and without supplemental antibiotics; these results suggest that DBP

ud bista ced , camae el un fra cel ...d contributed to persistence of infection. Longitudinal sera were tested again staphylococcal sonic extracts by immunoblot. Detection of numerous probe-positive bands indicated complex but remarkably similar antibody responses among infected animals. Antibodies attached directly to the cell surfaces of staphylococci as shown by immunogold and blocked the binding of organisms to HEp-2 and human fetal lung cells in a radioadherence assay. Antibodies could be absorbed out by intact organisms and were in reactive by immunoblot against antigens derived from cells pretreated with pronase, proteinase K, or lysostaphin. These results indicate that the major response was directed against staphylococcal cell surface proteins. Surprisingly, only one major band (molecular weight, .apprx. 12,000) was detected when a homologous in vivo antigen preparation was studied by immunoblot. Antibody reactive against this peptide did not appear to react with staphylococci grown in vitro.

- L39 ANSWER 7 OF 7 BIOSIS COPYRIGHT 1997 BIOSIS
- TI EXTRACTION OF LEUKEMIA ASSOCIATED ANTIGEN AND ACTIVE SPECIFIC IMMUNIZATION WITH LEUKEMIA ASSOCIATED ANTIGEN IN ACUTE LEUKEMIA.
- SO NAGOYA J MED SCI 42 (3-4). 1980. 655468. CODEN: NJMSAG ISSN: 0027-7622
- Leukemia associated antigen (LAA) was prepared from leukemia cells, AΒ using hypotonic lysis and low frequency sonications, followed by diethylaminoethyl (DEAE) cellulose column chromatography. Four protein peaks were eluted by stepwise introduction of increased concentration of NaCl solutions. With running on polyacrylamide gel electrophoresis (PAGE), unique bands which were not present in extracts of remission bone marrow, 1 appeared in eluates of higher mol NaCl solution. These eluates produced positive blastogenic response when incubated with autologous remission lymphocytes. Active specific immunization with pooled allogeneic LAA was performed in 14 adult AML patients in complete remission. Immunization was done weekly for 3 wk and immunological studies (measurement of in vitro lymphocyte blastogenic responses and delayed hypersensitivity skin reactions) were done weekly for 5 wk. Twelve out of 14 patients showed increased blastogenic responses to LAA after immunization, and 9 out of 10 studied showed increased blastogenic responses to irradiated autologous leukemia cells. Significant increases in blastogenic responses to both LAA and autologous leukemia cells were noticed on day 22 (P < 0.05). The increase of blastogenic responses seems to be higher among the patients whose length of remission was over 12 mo. at the time of immunization. There was no overall significant difference between blastogenic responses in autologous serum or pooled AB(+) serum. Increased skin test reactivity to LAA after immunization was seen in 7 out of 14 patients. Those patients with an initially weak reaction showed increased reactivity after immunization. There was no correlation between blastogenic responses and skin test reactivity.

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- L41 ANSWER 1 OF 14 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- TI [Embolism and intramedullary femoral surgery].
 EMBOLIES ET CHIRURGIE FEMORALE INTRA-MEDULLAIRE.
- SO Revue de Chirurgie Orthopedique et Reparatrice de l'Appareil Moteur, (1997) 83/1 (9-21).
 Refs: 81
 - ISSN: 0035-1040 CODEN: RCORAI
- All intramedullary femoral surgery entails embolic phenomena which explain peroperative collapses formally known as bone cement implantation syndrome, as well as perioperative fat embolism syndromes. Locally, the bigger the cavity is, the higher the number of accidents: 2,5-5 per cent for GUEPAR hinged-knee prothesis, 1,75 per cent for total hip arthroplasty with long stem, and 0.1 per cent during classic THA with cement limited to the metaphysis. Anomalies in bone vascularization also increase risk: 10.5-13 per cent during prophylactic nailing for shaft metastases, 1-11.5 per cent during hemiarthroplasty cemented in osteoporotic bone of femoral neck fractures, and only 0.1 per cent during THA implanted because of arthrosis. Not only cement, but also rods, reamers, nails, implants, ultrasonic tool for cement
 - extraction, increase the pressure inside the cavity. Methylmethacrylate is no longer the only incriminated factor, even if it is responsible for a major part of the compressive load. The intensity and duration of the pressure are correlated with the number of embolic phenomena and with measured cardiopulmonary parameters. The intracavity fat content is expelled (an empty cavity, as in THA revision, does not lead to embolic phenomena). Then filters through the intraosseous veins whose diameter limit the size of the extruded embolic phenomena. The ultrasonography of the inferior vena cava shows innumerable fine particules and thrombi which are already organized under the influence of procoagulant factors released from the operative shield and which remain crumbly. These emboli cross the cardiac cavities. Transesophageal echocardiography (TEE), of recent use, does quantify the amount of right atrial filling, duration of echogenesis and size of particules: the result is higher in patients who underwent cemented versus noncemented THA: however the embolism score is not an indicator of seriousness because it is not correlated with cardiorespiratory manifestations; TEE shows only one fourth of the patent foramen ovale, whereas the atrial septal defect is surely one of the most efficient systemic invasion mechanisms to produce

perioperative fat embolism. Lung response is most often asymptomatic, even if all patients undergoing intramedullary surgery display an increase in pulmonary vascular resistance which is managed by the right heart only, as well as pulmonary (and sometimes systemic) microvascular fat obstruction. Common operating room monitoring procedures do not detect - successive embolic phenomena before they cause pulmonary arterial hypertension which then has repercussions on the left heart and in turn causes peroperative hemodynamic accidents. Only pulmonary arterial pressure measurement with a Swan-Ganz catheter gives early and durable signs of an intolerance to embolic load. Preventive treatment is surgical as there is an inverse relation between embolic marrow and marrow eliminated by large volume washes (which is often more effective than draining). Cement indications in older patients as well as the choice of fixation techniques in femoral fractures must take into account the cardio-pulmonary condition of the patient. Resuscitation procedures dealing with these complications end in the patient's death in half of the cases.

- L41 ANSWER 2 OF 14 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- TI Influence of marrow on ultrasonic/velocity and attenuation in bovine trabecular bone.
- SO Calcified Tissue International, (1996) 58/5 (362-367). ISSN: 0171-967X CODEN: CTINDZ
- AB Measurements of ultrasonic velocity and specific differential attenuation (SDA) were obtained on 24 bovine trabecular bone specimens from the femoral condyles. The measurements were obtained using two pairs of ultrasonic transducers, one with a low nominal center frequency (500 kHz) and the other pair with a high nominal center frequency (1 MHz). The ultrasonic velocity and specific differential attenuation associated with the bone samples were determined both with and without marrow,
 - i.e., replacing the marrow with water in the pores of the trabecular bone. Significant increases (2.1% and 2.9%) in the velocity of ultrasound were observed after removal of the
 - marrow, for the low and high frequency transducer pairs, respectively. In contrast, significant decreases (-6.5% and -8.8%) in SDA were observed after removal of the marrow
 - , for the low and high frequency transducer pairs, respectively. The bone densities (BD) of the samples were also determined using single photon absorptiometry (SPA). Correlations between
 - ultrasonic parameters and bone densities for samples both with and without marrow were found to be similar. For example, for the 1 MHz transducer pair, the correlation between BD and velocity was r = 0.86 with marrow, and r = 0.89 without marrow. This study also compared the results obtained using a contact (no water bath) technique and an insertion (with a water bath) technique of ultrasonic measurements. For the high frequency transducer pair, the correlation coefficients between the two methods were r = 0.99 and r = 0.93, for the velocity and specific differential attenuation, respectively. Similar results were found

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for the low frequency transducer pair as well. In addition, approximately equal correlations between BD and ultrasonic velocity and SDA were also found, indicating that contact and insertion measurements provide essentially equivalent information.

- L41 ANSWER 3 OF 14 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- TI Chemotherapy in pregnancy.
- Clinical Consultations in Obstetrics and Gynecology, (1995) 7/4 (278-284).
 - ISSN: 1043-0660 CODEN: CCOGFT
- AB C.G. is a 22-year-old white female, gravida IV, para 2-0-1-2 who presented at 24 weeks gestation with a several month history of abdominal and back pain. The patient also noted severe leg edema for several months duration. C.G. had an unremarkable past medical history as well as an unremarkable family history. She did admit to smoking one pack of cigarettes per day for the last 7 years. Physical examination showed a gravid white female in severe discomfort secondary to pain. Pertinent physical examination findings included a 2 x 3 cm firm cervical lymph node, mild right lower quadrant tenderness, a 25-cm fundal height, severe leg edema, and vulvar edema. Radiologic data/included a computed tomography scan of the abdomen and pelvis that showed marked retroperitoneal adenopathy and right hydronephrosis. A normal fetus at 24 weeks gestation was seen on abdominal ultrasound. Fine needle
 - aspiration of the retroperitoneal mass and enlarged cervical lymph node were not sufficient for diagnosis. The supraclavicular lymph node was excised and interpreted pathologically as a poorly differentiated neuroblastoma. The patient was subsequently treated with Cisplatin 100 mg/m2 and a total of 300 mg/m2 of etoposide every 4 weeks during the next 3 months. Induction of labor was initiated at 35 weeks gestation secondary to intrauterine growth retardation. This was begun 1 week before the expected chemotherapy nadir. Cesarean section was performed secondary to fetal distress during labor. A normal 1,825 gm infant was delivered and all neonatal laboratory data were within normal limits. After delivery, the mother recovered uneventfully and was treated with high-dose chemotherapy and autologous hone marrow
 - chemotherapy and autologous hone marrow transplantation. Unfortunately, C.G. died from neutropenic sepsis during the high-dose chemotherapy regimen.
- L41 ANSWER 4 OF 14 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- TI Ultrasonic resection of neuroblastomas: Long-term local tumor control.
- SO Archives of Surgery, (1995) 130/8 (905-908). ISSN: 0004-0010 CODEN: ARSUAX
- AB Objective: To evaluate the effectiveness of ultrasonic aspiration in achieving local tumor control of bulky neuroblastomas that are considered unresectable by conventional means. Design: A retrospective review of 12 patients undergoing ultrasonic aspiration as part of multimodal
 - treatment protocols. Setting: A pediatric oncology referral center.

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Patients: Twelve children with large neuroblastomas located in the abdomen (n=5), chest (n=5), and neck (n=2). Follow-up was 1.5 to 7.5 years. Interventions: Ultrasonic aspiration of

the tumor was primary therapy (n=7) or followed initial chemotherapy (n=5). All patients underwent subsequent chemotherapy or autologous

Outcome Measures: The incidences of residual disease and local recurrence were examined. Results: Tumor- related symptoms were effectively relieved in all 12 patients. Recurrent local disease led to death in two. One patient died of distant metastases. Conclusions: Ultrasonic aspiration minimized blood loss and did not cause damage to adjacent organs. It provided nearly complete tumor resection, enhanced the effectiveness of chemotherapy protocols, and decreased the need for supportive care. Ultrasonic aspiration is a safe and effective

method for obtaining local control of large neuroblastomas.

- L41 ANSWER 5 OF 14 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- TI Needle liver biopsy in thalassaemia: Analyses of diagnostic accuracy and safety in 1184 consecutive biopsies.
- SO British Journal of Haematology, (1995) 89/4 (757-761). ISSN: 0007-1048 CODEN: BJHEAL
- AB We report the reliability and safety of percutaneous liver biopsy in the evaluation of hepatic iron loading and histology in patients with homozygous .beta.-thalassaemia prior to and in serial biopsies following allogeneic bone marrow (1) (2) (3)
 - transplantation for this disorder, 501 thalassaemic patients aged 11 .+-. 45 years (range 1-32 years) underwent 1184 consecutive percutaneous liver biopsies without ultrasound guidance. Overall, 81% of biopsies were evaluable for histological examination and grading of iron, The adequacy of liver biopsy specimens increased with patient age: evaluable specimens were obtained in 73% of patients <5 years of age and in 86% of samples in patients aged >15 years. The degree of iron overload and fibrosis in each biopsy was reported separately by at least two pathologists who did not know the clinical status of each patient. In 103 biopsies, iron grade by light microscopy corresponded to an iron concentration varying between a mean of 32.46 .+-. 14 .mu.mol/g dry weight liver tissue for iron stores graded by light microscopy as absent to 417.6 .+-. 150 .mu.mol/g dry weight liver tissue for stores graded as severe. The fibrosis score of multiple samples of liver obtained at autopsy within 100d of the percutaneous biopsy in 41 patients who died following BMT correlated perfectly with that of the first sample in >60% biopsies; in most of the discordant cases fibrosis had been underestimated in the percutaneous biopsy. Liver biopsy demonstrated evidence of chronic hepatitis in 30% of patients with normal transaminase and in 57% of patients with transaminase within twice the normal range. Liver biopsy was complicated in six patients (0.5%) by haemoperitoneum, periocholecystic haematoma, kidney haematoma, or bile peritonitis; no complication was fatal. These data demonstrate that percutaneous liver biopsy provides reliable

painti or painti or million, the interaction of a at two pain information regarding liver iron and histology in homozygous .beta.-thalassaemia with an extremely low risk of complications.

- ANSWER 6 OF 14 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V. L41
- TI Papillary thyroid carcinoma after total body irradiation.
- SO ISSN: 0003-9888 CODEN: ADCHAK
- Two children developed papillary thyroid carcinoma after allogeneic bone marrow transplantation (BMT) probably due to radiotherapy during remission and pretransplantation

conditioning. Establishing a relationship between the cellular thyroid stimulating hormone (TSH) effect and development of carcinoma in cases with high serum TSH concentrations is difficult. After BMT, patients should be regularly followed up with thyroid ultrasound and, when nodularity is found, fine needle aspiration and/or open biopsy are recommended.

- L41 ANSWER 7 OF 14 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- Infected urachal cyst with symptomatic thrombocytopenic purpura: A TI case report.
- NISHINIHON J. UROL., (1994) 56/8 (869-873). SO ISSN: 0029-0726 CODEN: NHJUAR
- We report the first case of infected urachal cyst with symptomatic AB thrombocytopenic purpura. A 57-year-old woman complained of miction pain, urinary frequency, gross hematüria, lower abdominal pain and bleeding of the gums. She was found to have petechia and purpura in the extremities after admission to our hospital. Physical examination revealed a large tender area in the lower abdomen and muscular defense. Laboratory examination showed severe thrombocytopenia (< 1000/mm3). Ultrasound scan and CT scan confirmed a heterogenous cystic lesion about 3 cm in diameter extending from the navel to the dome of the bladder. She had increased numbers of megakaryocytes in her bone
 - marrow. After undergoing removal of the urachal cyst combined with administration of platelet transfusion and corticosteroid, her platelet count rose to 70 X 104/mm3 at 7 postoperative days. a found, time
- ANSWER 8 OF 14 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V. L41
- ΤI Role of magnetic resonance imaging in the evaluation of the hydroxyapatite orbital implant.
- OPHTHALMOLOGY, (1992) 99/5 (824-830). SO
- AB
- The role of magnetic resonance imaging (MRI) in the assessment of fibrovascular ingrowth in the integrated hydroxyapatite orbital implant is evaluated. Fifteen patients who underwent
 - enucleation and placement of a hydroxyapatite orbital implant were evaluated for degree of implant vascularity with gadolinium-DPTA-enhanced MRI with surface coil before drilling the implant. On T1-weighted images, the hydroxyapatite sphere appeared with intermediate signal. After gadolinium-DPTA administration, all

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patients showed an enhancement in the implant consistent with the presence of fibrovascular ingrowth. The enhancement was most notable in the peripheral portions of the sphere and was seen as early as 5 months after implantation. Comparison of gadolinium-DPTA-enhanced MRI with contrast-enhanced computed tomography, ultrasonography, and color Doppler imaging suggests that these latter techniques are not as helpful in the detection of the fibrovascular tissue in the orbital implant. Bone scan, a technique used by many surgeons, demonstrates fibrovascular ingrowth, but it is limited by its one-dimensional low-resolution image. Because of its three-dimensional capability and its highest resolution, contrast-enhanced MRI with surface coil appears to be the best imaging method for evaluating the hydroxyapatite orbital implant and its fibrovascular ingrowth.

- L41 ANSWER 9 OF 14 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- TI A newly recognized fastidious gram-negative pathogen as a cause of fever and bacteremia.
- SO NEW ENGL. J. MED., (1990) 323/23 (1587-1593). ISSN: 0028-4793 CODEN: NEJMAG
- AB Background. We identified a motile for tweed, gram-negative bacillus as the cause of persistent fever and bacteremia in two patients with symptomatic human immunodeficiency virus infection. The same organism was subsequently recovered from a bone

marrow-transplant recipient with septicemia and from two immunocompetent persons with week-long febrile illnesses. All the patients recovered after antimicrobial therapy. Methods and Results. Primary cultures of blood processed by centrifugation after blood-cell lysis yielded adherent, white, iridescent, morphologically heterogeneous colonies in 5 to 15 days. Subcultures grew in four days on chocolate, charcoal-yeast extract, or blood agar. The organisms stained weakly with safranin and were not acidfast. Fluorescent-antibody tests for legionella and francisella were negative. Biochemical reactivity, was minimal and difficult to ascertain. Agar-dilution testing revealed in vitro susceptibility to most antimicrobial agents tested. The cellular fatty acid composition of the isolates was similar, resembling that of Rochalimaea quintana or brucella speçies, but not Helicobacter pylory or species of campylobacter or legionella. As resolved by gel electrophoresis, cell-membrane preparations of all isolates contained similar proteins, with patterns that different from that of R. quintana. Patterns of digestion of DNA from all isolates by EcoRV restriction endonuclease were virtually identical and also differed from that of R. quintana, On immunodiffusion, serum from one convalescent patient produced a line of identity with

sonicates of all five isolates. Conclusions. This pathogen may have been unidentified until now because of its slow growth, broad susceptibility to antimicrobial agents, and possible requirement of blood-cell lysis for recovery in culture. It should be sought as a cause of unexplained fever, especially in persons with defective cell-mediated immunity;

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- L41 ANSWER 10 OF 14 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- TI Antibody response to Staphylococcus aureus surface proteins in rabbits with persistent osteomyelitis after treatment with demineralized **bone implants**.
- A rabbit model was used to study the effect of allogeneic AB demineralized bone powder (DBP) implants on the persistence of Staphylococcus aureus osteomyelitis. Thirty-one rabbits with chronic osteomyelitis of the tibia established by day 21, were started on systemic antibiotics followed by either no additional treatment or debridement plus either DBP (with or without supplemental antibiotics) or supplemental antibiotics only. On day 21, cultures showed a mean of 2 x 104 CFU/mg of debrided osseous material. By day 70, the treatment most effective in clearing infection was found in animals treated with supplemental antibiotics only (mean of 142 .+-. 116 CFU/mg). In contrast, infection persisted at a 7- to 10-fold-higher level in animals receiving DBP with and without supplemental antibiotics; these results suggest that DBP contributed to persistence of infection. Longitudinal sera were tested against staphylococcal sonic extracts by immunoblot. Detection of numerous probe-positive bands indicated complex but remarkably similar antibody responses among infected animals. Antibodies attached directly to the cell surfaces of staphylococci as shown by immunogold and blocked the binding of organisms of HEp-2 and human fetal lung cells in a radioadherence assay. Antibodies could be absorbed out by intact organisms and were unreactive by immunoblot against antigens derived from cells pretreated with pronase, proteinase K, or lysostaphin. These results indicate that the major response was directed against staphylococcal cell surface proteins. Surprisingly, only one major band (molecular weight, .apprx.12,000) was detected when a homologous in vivo antigen preparation was studied by immunoblot. Antibody reactive against this peptide did not appear to react with staphylococci grown in vitro. to combar he
- L41 ANSWER 11 OF 14 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- TI Extraction of leukemia associated antigen (LAA) and active specific immunization with LAA in acute leukemia.
- SO NAGOYA J. MED. SCI., (1980) 42/3-4 (55-67).
- CODEN: NJMSAG

 Leukemia associated antigen (LAA) was prepared from leukemia cells, using hypotonic lysis and low frequency sonications, followed by diethylaminoethyl (DEAE) column chromatography. Four protein peaks were eluted by stepwise introduction of increased concentration of NaCl solutions. With running on polyacrylamide gel electrophoresis (PAGE), unique bands which were not present in
 - extracts of remission bone marrow, appeared in eluates of higher mol NaCl solution. These eluates produced positive blastogenic response when incubated with

e de la companya de l La companya de la co autologous remission lymphocytes. Active specific immunization with pooled allogeneic LAA was performed in 14 adult AML patients in complete remission. Immunization was done weekly for 3 weeks and immunological studies (measurement of in vitro lymphocyte blastogenic responses and delayed hypersensitivity skin reactions) were done weekly for 5 weeks. 17-out-of. 14-patients showed increased blastogenic responses to LAA after immunization, and 9 out of 10 studied showed increased blastogenic responses to irradiated autologous leukemia cells. Significant increases in blastogenic responses to both LAA and autologous leukemia cells were noticed on day 22 (p<0.05). The increase of blastogenic responses seems to be higher among the patients whose length of remission was over 12 months at the time of immunization. There was no overall significant difference between blastogenic responses in autologous serum or pooled AB(+) serum. Increased skin test reactivity to LAA after immunization was seen in 7 out of 14 patients. Those patients with an initially weak reaction showed increased reactivity after immunization. There was no correlation between blastogenic responses and skin test reactivity.

- L41 ANSWER 12 OF 14 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- TI Osteopoietin Humoral induction factor in osteogenesis.
- SO J. PERIODONTOL., (1980) 51/4 (185-189)...
 CODEN: JOPRAJ
- AB A heat-stable, glycoprotein-like material, osteopoietin, produced during bone marrow regeneration, has been shown to induce
 - bone formation when implanted in the rate eye. The
 material was separated by ultrasonic treatment or by acid
 buffer (pH 3-5) from sponges implanted in the
 - marrow. The extracted material free of
 - bone or cell solids, induced bone formation in the anterior eye chamber of the rat, whereas the cell solids and control sponges similarly implanted did not.
- L41 ANSWER 13 OF 14 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- TI Studies on ultrasonic removal of implants and the effect of ultrasound on bone in least the
- SO ACTA ORTHOP. BELG., (1979) 45/5 (595-602).... CODEN: AOBEAF
- AB As it is possible to vibrate ultrasonically porous metal plugs out of bone, a study has been conducted to determine the destructive effect of ultrasound on living bone, and to determine whether or not large implants can be
 - ultrasonically loosened. It has been found that energy levels of 100 watts produced localized bone and marrow disruption with little tendency to spread. However, energy levels of 1000 watts were insufficient to loosen large implants. It is concluded that at present, ultrasonics is not a suitable method for

- removing large implants from bone. Land to the
- L41 ANSWER 14 OF 14 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.

- TI [Possibilities for use of ultrasonic instruments in endoprosthesis replacement?].

 MOGLICHKEITEN DER ANWENDUNG VON ULTRASCHALLWERKZEUG BEI ENDOPROTHESENWECHSEL.
- SO CHIRURG, (1979) 50/4 (257-261). CODEN: CHIRAS
- In joint replacement surgery an exchange of endoprosthesis is technically most difficult, time consuming, and extremely unpleasant for the patient. Removal of the implant without damaging the bone entails many problems. Experience has shown that, in addition to the normal operative technique, the ultrasonic method may be very helpful. Ultrasonic implements that melt thermoplastic implants facilitate the removal of those implants (e.g., polymethylmethacrylate, polyethylene), protect the tissue, and save time. This method is not an alternative to the normal operative technique, but an additional help.
- => d 142 1-35 ti
- L42 ANSWER 1 OF 35 EMBASE COPYRIGHT/1997 ELSEVIER SCI. B.V.
- TI Bone marrow transplantation in children: Imaging assessment of complications.
- L42 ANSWER 2 OF 35 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- TI Biologic agents in fracture repair.
- L42 ANSWER 3 OF 35 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- In-utero transplantation of parental CD34 haematopoietic progenitor cells in a patient with X-linked severe combined immunodeficiency (SCIDXI).
- L42 ANSWER 4 OF 35 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- TI [Preliminary results in the transplantation of allogeneic vascularized femoral diaphyses under immunosuppression].

 VORLAUFIGE ERGEBNISSE DER TRANSPLANTATION ALLOGENER GEFASSGESTIELTER FEMURDIAPHYSEN UNTER IMMUNSUPPRESSION.
- L42 ANSWER 5 OF 35 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- TI Absence of the posterior tibial artery: Implications for free transplants of the fibula.
- L42 ANSWER 6 OF 35 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- TI [Re-establishment of speech and swallowing function following extensive tumor resections in the head and neck].
 WIEDERHERSTELLUNG DER SPRECH- UND KAUFUNKTION NACH AUSGEDEHNTEN TUMORRESEKTIONEN IM KIEFER-GESICHTSBEREICH.
- L42 ANSWER 7 OF 35 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- TI Peripheral primitive neuroectodermal tumors, CT and MRI evaluation.

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- L42 ANSWER 8 OF 35 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- TI Hodgkin's disease: The next decade.
- L42 ANSWER 9 OF 35 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- Outcome of extensive evaluation before adjuvant therapy in women with breast cancer and 10 or more positive axillary lymph nodes.
- L42 ANSWER 10 OF 35 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- TI Reconstruction with tenodesis in an adult flatfoot model. A biomechanical evaluation of four methods.
- L42 ANSWER 11 OF 35 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- TI Measurements of long-term periprosthetic bone changes around a unique composite implant.
- L42 ANSWER 12 OF 35 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- TI Hydroxyapatite-alumina composites and bone-bonding.
- L42 ANSWER 13 OF 35 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- TI The effects of ultrasonic stimulation on DP-bioglass bone substitute.
- L42 ANSWER 14 OF 35 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- TI Ultrasound evaluation of hepatic and splenic microabscesses in the immunocompromised patient: Sonographic patterns, differential diagnosis, and follow-up.
- L42 ANSWER 15 OF 35 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- TI Carotido-brachial artery bypass for radiation induced injury of the subclavian artery. The value of a lateral mid-arm approach.
- L42 ANSWER 16 OF 35 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- Prospective study of pituitary-gonadal function to evaluate short-term effects of ablative chemotherapy or total body irradiation with autologous or allogenic marrow transplantation in post-menarcheal female patients.
- L42 ANSWER 17 OF 35 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- TI Ultrasonically determined elasticity and cortical density in canine femora after hip arthroplasty.
- L42 ANSWER 18 OF 35 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- TI Pathogenesis and prophylaxis of circulatory reactions during total hip replacement.
- L42 ANSWER 19 OF 35 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- TI Definition of a subset of human peripheral blood mononuclear cells that are permissive to human cytomegalovirus infection.
- L42 ANSWER 20 OF 35 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- TI Venocclusive disease of the liver: Prospective study of US

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evaluation.

- L42 ANSWER 21 OF 35 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- TI Venoocclusive liver disease after bone marrow transplantation: Findings at duplex sonography.
- L42 ANSWER 22 OF 35 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- TI Chronic systemic candidiasis in acute leukemia.
- L42 ANSWER 23 OF 35 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- TI Evaluation of the calcium phosphate ceramic implant by non-invasive techniques.
- L42 ANSWER 24 OF 35 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- TI Gaucher's disease: Plain radiography, US, CT and MR diagnosis of lungs, bone and liver lesions.
- L42 ANSWER 25 OF 35 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- TI Sports traumatology today: A review of common current sports injury problems. $\frac{2f6\pi \delta_1 \delta_2 J}{2}$
- L42 ANSWER 26 OF 35 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- TI The evaluation of cortical bone remodeling with a new ultrasonic technique.
- L42 ANSWER 27 OF 35 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- TI The evaluation of bone remodeling about orthopaedic implants with ultrasound.
- L42 ANSWER 28 OF 35 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- TI [Ultrasound control of bone healing after spongiosa substance plasty- A supportive method to X-ray measurement]. SONOGRAPHISCHE KONTROLLE VON SPONGIOSATRANSPLANTATEN UNTERSTUTZUNG DER RADIOLOGISCHEN DIAGNOSTIK.
- L42 ANSWER 29 OF 35 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- TI Continuous measurement of biparietal distance in the intact and hypophysectomized fetal sheep using ultrasound.
- L42 ANSWER 30 OF 35 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- TI In utero bone marrow transplantation of fetal baboons with mismatched adult marrow: Initial observations.

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- L42 ANSWER 31 OF 35 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- TI [Thermal effects of electrotherapeutic apparatus after metal implantation].

 DIE THERMISCHE WIRKUNG ELEKTROTHERAPEUTISCHER GERATE NACH METALLIMPLANTATION.
- L42 ANSWER 32 OF 35 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- TI Roentgenographic changes after ultrasonic discoidectomy

and bone plasty of the intervertebral defect.

- L42 ANSWER 33 OF 35 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V. TI Cranioplasty with formalin-treated homografts using ultrasonic instruments.
- L42 ANSWER 34 OF 35 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
 TI [Healing processes of ultrasonically welded bone fractures in rabbits].
 HEILUNGSVORGANGE AN ULTRASCHALLGESCHWEISSTEN KNOCHENFRAKTUREN DES KANINCHENS.
- L42 ANSWER 35 OF 35 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V. TI Obstructive jaundice after bone marrow transplantation.
- => d 142 2,13,16,18,26,27,28,30,32,33,34,35 ti so ab
- L42 ANSWER 2 OF 35 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- TI Biologic agents in fracture repair.
- Current Opinion in Orthopaedics, (1996) 7/6 (43-49).
 Refs: 40
 ISSN: 1041-9918 CODEN: COORE
- AB Articles and publications that discuss augmentation of fracture repair are reviewed herein. Both biologic and biophysical adjuncts to bone healing have been reported. The family of bone morphogenetic proteins has been successfully used in long-bone defects and spine fusion models. The growth factors appear to have a supportive role in bone healing. There has been growing interest in defining those factors that inhibit bone repair, such as smoking, and advancing the therapeutic interventions that will enhance bone stock.
- L42 ANSWER 13 OF 35 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- TI The effects of ultrasonic stimulation on DP-bioglass bone substitute.
- SO Medical Engineering and Physics, (1995) 17/1 (20-26). ISSN: 1350-4533 CODEN: MEPHEO
- AB In previous studies, DP-bioglass showed good biocompatibility and can form a chemical bond with natural bone. After implementation in the rabbit femur condyle for 32 weeks, DP-bioglass gradually biodegraded and osteocytes grew into the material. In this study, an attempt has been made to utilize low intensity pulsed
 - ultrasound to speed up the bone regeneration rate and DP-bioglass absorption rate when the DP-bioglass is implanted into the rabbit femur condyle as a bone substitute. The fundamental parameters of the ultrasound used were 1.5 MHZ frequency, 0.5 W cm-2 intensity, on-off ratio 1:1 and 2 ms for the on-off time interval. The stimulation, in all cases, was started 24 h after the operations by applying the transducer to the skin using DIR
 - ultrasound jelly as a coupling medium. The evaluation of the progress of bone regeneration and the material's biodegradable rate

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were conducted by histological examination and by measurements of the areas of regenerated bone, pores and DP-bioglass made with a planimeter: It was found that low intensity pulsed

- ultrasound had a profound effect on the rate both of bone regeneration and DP-bioglass bioabsorption in this rabbit model and that its mechanism of the action may be via an electromechanical kinetic effect on the cell membrane interfaces.
- L42 ANSWER 16 OF 35 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
 TI Prospective study of pituitary-gonadal function to evaluate short-term effects of ablative chemotherapy or total body irradiation with autologous or allogenic marrow

transplantation in post-menarcheal female patients.

SO BONE MARROW TRANSPLANT., (1994) 13/5-(511-517).

ISSN: 0268-3369 CODEN: BMTRE

- AB Pituitary-gonadal (P-G) function was evaluated 0-3 months before and 3-4 months after **bone marrow**
 - transplantation (BMT) in 15 post-menarcheal females aged 17-30 (21.6 .+-. 0.34) years with haematological malignancies. All patients had evidence of gonadal insufficiency prior to BMT in that their basal and human menopausal gonadotrophin (HMG)-stimulated oestradiol (E2) levels were significantly lower than those of control subjects. The patients also had markedly higher basal FSH levels and exaggerated responses to 100 ... mu.g iv gonadotrophin release hormone bolus compared with those of control subjects. However, the conditioning regimens employed prior to BMT, i.e. cytotoxic chemotherapy (CT) and total body irradiation (TBI), acting either singly or in combination, caused further ovarian damage. As a result, their gonadotrophins rose further into the menopausal range. Their oestradiol secretion diminished and ovaries became almost unresponsive 3-4 months after BMT. Pelvic ultrasound undertaken in 5 patients before and after BMT demonstrated a reduction in ovarian size associated with follicular depletion. All patients developed menopausal symptoms and became amenorrhoeic during this period. Contrary to expéctation, the hormonal changes occurring acutely were similar in patients undergoing radiation-based regimens and those conditioned with high-dose chemotherapy alone. Also, the severity of ovarian dysfunction appeared independent of age at transplantation, the nature of the conditioning-regimen or the type of transplant. Gonadotrophic, thyrotrophic, lactotrophic and adrenocorticotrophic secretions were unaffected. These data indicate that the ovary suffers an acute insult during short-term chemotherapy but the anterior pituitary gland retains its trophic hormone reserve and secretory capacity.
- L42 ANSWER 18 OF 35 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- TI Pathogenesis and prophylaxis of circulatory reactions during total hip replacement.
- SO ARCH. ORTHOP. TRAUMA SURG., (1993) 112/6 (260-265). ISSN: 0936-8051 CODEN: AOTSEF
- ISSN: 0936-8051 CODEN: AOTSEF CHARLES AB Circulatory reactions such as a drop in blood pressure, bradycardia,

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cardiac arrest, and even intraoperative death after insertion of the stem are well known events during total hip replacement. The present paper reports bone marrow intravasation after rise of intramedullary pressure in the femoral cavity during insertion of hip protheses, demonstrated by intraoperative transesophageal echocardiography. In an animal study, the ultrasound echoes were identified as 'mixed emboli' consisting of a core of bone marrow surrounded by thrombus. These results suggested the use of an intramedullary plug to restrict the intravasation of bone marrow. A trial was undertaken in 60 total hip replacement operations. The first 30 were performed using the conventional technique without an intramedullary plug. In a second series of 30 operations, an intramedullary plug made of cancellous bone taken from the resected femoral head was placed 2 cm below the expected location of the tip of the stem. The cement was applied from distal to proximal by syringe. After implantation of the prosthesis using the conventional technique, a significant drop in blood pressure was observed. In the second series, the drop in blood pressure did not occur. In conclusion, it was demonstrated that effective venting of the bone marrow cavity by a bore hole, and avoidance of compression of the bonemarrow-filled distal femoral cavity by using a plug, results in effective prevention of circulatory reactions: no drop in blood pressure occurred. The use of an intramedullary plug is discussed and recommended.

L42 ANSWER 26 OF 35 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.

TI The evaluation of cortical bone remodeling with a new ultrasonic technique.

SO IEEE TRANS. BIOMED. ENG., (1990) 37/5 (433-441).

ISSN: 0018-9294 CODEN: IEBEAX

Total hip arthroplasty causes biomechanical changes in the normal femur including a redistribution and concentration of stress. These mechanical alterations in the femur cause local remodeling and resorption that affect the geometry and mechanical properties of the bone. Three complementary techniques were used to study the local adaptive remodeling of bone due to prothesis

implantation. A graphics package was used to obtain section geometrical information, an ultrasonic wave propagation technique to determine elastic properties, and a new scanning acoustic microscope (SAM) to map the acoustic impedance profile of each section. The effects of the implantation of two different types of hip prostheses were investigated, an uncemented bipolar prosthesis with an Austin-Moore type stem and a cemented Charnley prosthesis. Prosthesis implantation resulted in an increase in cortical area and mediolateral diameter and a decrease in anterio-posterior diameter. Both prostheses had a detrimental effect on local elastic properties as determined by acoustic velocity measurements. Finally, the SAM system provided information about local inhomogeneities in bone properties not obtainable by any other means. The acoustic impedance maps high-lighted bone resorption and bone remodeling on a microstructural level.

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- L42 ANSWER 27 OF 35 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- TI The evaluation of **bone** remodeling about orthopaedic implants with ultrasound.
- SO J. ORTHOP. RES., (1989) 7/4 (607-611). ISSN: 0736-0266 CODEN: JOREDR
- Total hip arthroplasty causes biomechanical changes in the normal AΒ femur, including a redistribution and concentration of stress. These mechanical alterations in the femur cause local remodeling and resorption that affect the geometry and mechanical properties of the bone. Two complementary ultrasonic techniques were used to study the local adaptive remodeling of bone due to prosthesis implantation. An ultrasonic wave propagation technique was used to determine elastic properties and a new scanning acoustic microscope (SAM), mapped the acoustic impedance profile of each section. The effects of the implantation of two types of hip prostheses, an uncemented bipolar prosthesis with an Austin-Moore type stem had a cemented Charnley prosthesis, were investigated. Both prostheses had a detrimental effect on local elastic properties as determined by acoustic velocity measurements. The SAM system provided information about local inhomogeneities in bone properties not obtainable by any other means. The acoustic impedance maps highlighted bone resorption and bone remodeling on a microstructural level. JAT 1997 41 5.
- L42 ANSWER 28 OF 35 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- TI [Ultrasound control of bone healing after spongiosa substance plasty- A supportive method to X-ray measurement].

 SONOGRAPHISCHE KONTROLLE VON SPONGIOSATRANSPLANTATEN UNTERSTUTZUNG DER RADIOLOGISCHEN DIAGNOSTIK.
- SO LANGENBECKS ARCH. CHIR., (1989) 374/1 (39-45).
 ISSN: 0023-8236 CODEN: LAACBS 179 and most
- AB The x-ray control is standard for spongiosa substance plasty and shows three periods of healing. In the first two periods (vascularisation and osteogenic reaction) the examination is restricted. Ultrasound control is a simple handling method although a hyporesonance or non-resonance of calcareous bone exists. The follow-ups concerning spongiosa substance plasty are made by
 - ultrasound and x-ray control, and more exact assessments are possible. Advantages and disadvantages of ultrasound in extremities are discussed.
- L42 ANSWER 30 OF 35 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- In utero bone marrow transplantation; of fetal baboons with mismatched adult marrow: Initial observations.
- SO BONE MARROW TRANSPLANT., (1988) 3/2 (141-147). ISSN: 0268-3369 CODEN: BMTRE
- AB Recent advances in prenatal diagnoses of sickle cell anemia and thalassemia permit early identification of affected fetuses.

 However, the only intervention possible to date is abortion of the affected fetuses. Transplantation of normal marrow into fetuses in utero could correct these life-threatening

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er species A The Mile constal The ONE ON A disorders, but to accomplish this techniques must be developed for fetal transplantation in man. Therefore, we have transplanted fetal baboons with mismatched adult baboon bone marrow from donors that differed at the glucose phosphate isomerase locus. Twenty-two fetuses between 60 and 160 days of gestation (term gestation is 182 days) were transplanted intraperitoneally with 109

marrow mononuclear cells/kg body weight using an

- ultrasonic technique. No immunosuppressive or preparative regimen was given prior to or after transplantation, and all fetuses tolerated the procedure well. One month after transplantation fetal blood samples were obtained to assess chimerism. Three chimeras were detected among 10 fetuses transplanted at 80 days' gestation, and no chimeras were detected in fetuses greater than 80 days' gestation at the time of transplantation. All chimeras died in utero during the third trimester of pregnancy: one of an intrauterine infection at 160 days' gestation, one at 135 days' gestation and one at 145 days' gestation. In contrast, the other 19 non-chimeric fetuses survived. These data suggest: (1) in utero fetal bone marrow
- transplantation is technically feasible in primates; (2) that allogeneic adult bone marrow can engraft and persist for at least 1 month in fetal baboons transplanted at 80 days of gestation; and (3) that delineation of the causes for loss of fetal chimeras should prove valuable in assessing the therapeutic potential for in utero bone marrow transplantation in man.
- L42 ANSWER 32 OF 35 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- TI Roentgenographic changes after **ultrasonic** discoidectomy and bone plasty of the intervertebral defect.
- SO ORTOP. TRAVMATOL. PROTEZ., (1982) No. 11 (21-25). CODEN: ORTPA7
- AB Studies of processes of the reparative regeneration of the bone tissue after ultrasonic discoidectomy and anterior spondylodesis with the compact-spongy allografts in experiment permitted to establish that the allograft undergoes resorption, which reaches its maximum by the 4th month. By this time the new bone tissue appeared, which substituted the allograft, with formation of bone block between the vertebral bodies towards the 10th month. Within terms up to 1 1/2 years in absolute immobility of the ankylosed vertebral bodies, the ankylosing may occur of the zygapophysial articulations and bone synostosis of transverse processes of the vertebrae. Clinical application of the ultrasonic discoidectomy allowed to obtain good results in 12 of 17 patients, and satisfactory ones in 5 patients.

- L42 ANSWER 33 OF 35 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- TI Cranioplasty with formalin-treated homografts using ultrasonic instruments.
- SO KHIRURGIYA (MOSCOW), (1980) 56/5 (105-107). CODEN: KHIRAE

- L42 ANSWER 34 OF 35 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- TI [Healing processes of ultrasonically welded bone fractures in rabbits].
 HEILUNGSVORGANGE AN ULTRASCHALLGESCHWEISSTEN KNOCHENFRAKTUREN DES KANINCHENS.
- The aim of ultrasonic welding of bones is to attain a stable osteosynthesis between the ends of the fractures by application of a, under ultrasonic influence quickly polymerizing, plast monomer mixed with granular homologous bone particles. In this paper the healing process from the osteosynthesis attained by welding up to the organic healing of the fracture is investigated.
- L42 ANSWER 35 OF 35 EMBASE COPYRIGHT 1997 ELSEVIER SCI. B.V.
- TI Obstructive jaundice after bone marrow transplantation.
- SO GASTROENTEROLOGY, (1977) 73/3 (565-569). CODEN: GASTAB
- AB Jaundice after bone marrow PC/nat.
 - transplantation is usually a consequence of graft versus host disease. Reported is a patient, who presented with obstructive jaundice several months after a successful marrow
 - allograft. Despite a benign bone marrow examination, abdominal ultrasound, upper gastrointestinal series, and endoscopic biopsy were utilized to diagnose recurrent leukemia at the pancreatic head and descending duodenum. The entities of graft versus host disease as related to jaundice, and gastrointestinal leukemia, in the presence of a 'remission' bone marrow, are reviewed.

FILE COVERS 1969 TO DATE.

CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNS) PRESENT FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 3 July 1997 (970703/ED); CAS REGISTRY NUMBERS (R) LAST ADDED: 3 July 1997 (970703/UP)

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L40 ANSWER 1 OF 29 BIOSIS COPYRIGHT 1997 BIOSIS
TI Effect of noninvasive low intensity ultrasound on bone growth into porous-coated implants.

L40 ANSWER 2 OF 29 BIOSIS COPYRIGHT 1997 BIOSIS

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- In-utero transplantation of parental CD34 haematopoietic progenitor TI cells in a patient with X-linked severe combined immunodeficiency (SCIDXI).
- L40 ANSWER 3 OF 29 BIOSIS COPYRIGHT 1997 BIOSIS
- Outcome of extensive evaluation before adjuvant therapy in women with breast cancer and 10 or more positive axillary lymph nodes.
- L40 ANSWER 4 OF 29 BIOSIS COPYRIGHT 1997 BIOSIS
- Reconstruction with tenodesis in an adult flatfoot model. A biomechanical evaluation of four methods.
- L40 ANSWER 5 OF 29 BIOSIS COPYRIGHT 1997 BIOSIS
- Needle liver biopsy in thalassaemia: Analyses of diagnostic accuracy and safety in 1184 consecutive biopsies.
- ANSWER 6 OF 29 BIOSIS COPYRIGHT 1997 BIOSIS L40
- Hydroxyapatite-alumina composites and bone-bonding. ΤI
- L40 ANSWER 7 OF 29 BIOSIS COPYRIGHT 1997 BIOSIS
- A Pseudo-Epidemic Involving Bone Allografts.
- ANSWER 8 OF 29 BIOSIS COPYRIGHT, 1997, BIOSIS L40
- Ultrasound evaluation of hepatic and splenic microabscesses TI in the immunocompromised patient: Sonographic patterns, differential diagnosis, and follow-up.
- ANSWER 9 OF 29 BIOSIS COPYRIGHT, 1997 BIOSIS L40
- Correlation of hepatic ultrasound-Doppler with liver biopsy findings in bone marrow transplant (BMT) patients with suspected veno-occlusive disease (VOD).
- L40 ANSWER 10 OF 29 BIOSIS COPYRIGHT 1997 BIOSIS TI Carotido-brachial artery bypage for Carotido-brachial artery bypass for radiation induced injury of the subclavian artery: The value of a lateral mid-arm approach.
- ANSWER 11 OF 29 BIOSIS COPYRIGHT 1997 BIOSIS L40
- Sonographie des Knochens: Experimentelle und klinische Ergebnisse zur ΤI Verlaufskontrolle nach Frakturen und Spongiosatransplantationen; %+(Sonography of the bone: Experimental and clinical results of monitoring the course after fractures and spongy bone graft). IL DEC PROFIL
- L40 ANSWER 12 OF 29 BIOSIS COPYRIGHT 1997 BIOSIS
- Hepatic veno-occlusive disease (VOD) gafter bone marrow transplantation (BMT): Prospective hemodynamic study using Doppler ultrasound.
- ANSWER 13 OF 29 BIOSIS COPYRIGHT 1997 BIOSIS L40
- Prospective study of pituitary-gonadal, function to evaluate short-term effects of ablative chemotherapy or total body irradiation

- with autologous or allogenic marrow transplantation in post-menarcheal female patients.
- L40 ANSWER 14 OF 29 BIOSIS COPYRIGHT 1997 BIOSIS
- TI Clinical evaluation of HTR polymer bone replacement grafts in human mandibular class II molar furcations.
- L40 ANSWER 15 OF 29 BIOSIS COPYRIGHT 1997 BIOSIS
- TI Ultrasonically determined elasticity and cortical density in canine femora after hip arthroplasty.
- L40 ANSWER 16 OF 29 BIOSIS COPYRIGHT 1997 BIOSIS
- TI DEFINITION OF A SUBSET OF HUMAN PERIPHERAL BLOOD MONONUCLEAR CELLS THAT ARE PERMISSIVE TO HUMAN CYTOMEGALOVIRUS INFECTION.
- L40 ANSWER 17 OF 29 BIOSIS COPYRIGHT 1997 BIOSIS
- TI VENOCCLUSIVE DISEASE OF THE LIVER PROSPECTIVE STUDY OF US EVALUATION.
- L40 ANSWER 18 OF 29 BIOSIS COPYRIGHT 1997 BIOSIS
- TI CHRONIC SYSTEMIC CANDIDIASIS IN ACUTE LEUKEMIA.
- L40 ANSWER 19 OF 29 BIOSIS COPYRIGHT 1997 BIOSIS
- TI EVALUATION OF THE CALCIUM PHOSPHATE CERAMIC IMPLANT BY NON-INVASIVE TECHNIQUES.
- L40 ANSWER 20 OF 29 BIOSIS COPYRIGHT 1997 BIOSIS
- TI EFFECT OF AN IMPLANT OF TRENBOLONE ACETATE AND ESTRADIOL ON GROWTH FEED EFFICIENCY AND CARCASS COMPOSITION OF HOLSTEIN AND BEEF STEERS.
- L40 ANSWER 21 OF 29 BIOSIS COPYRIGHT 1997 BIOSIS
- TI ACALCULOUS CHOLECYSTITIS AFTER BONE MARROW TRANSPLANTATION IN ADULTS WITH ACUTE LEUKAEMIA CASE REPORT.
- L40 ANSWER 22 OF 29 BIOSIS COPYRIGHT 1997 BIOSIS
- TI FETAL MEDICINE ITS PRESENT STATUS AND FUTURE PROSPECTS.
- L40 ANSWER 23 OF 29 BIOSIS COPYRIGHT 1997 BIOSIS
- TI THE EVALUATION OF BONE REMODELING ABOUT ORTHOPEDIC IMPLANTS WITH ULTRASOUND.
- L40 ANSWER 24 OF 29 BIOSIS COPYRIGHT 1997 BIOSIS
- TI CONTINUOUS MEASUREMENT OF BIPARIETAL DISTANCE IN THE INTACT AND HYPOPHYSECTOMIZED FETAL SHEEP USING ULTRASOUND.
- L40 ANSWER 25 OF 29 BIOSIS COPYRIGHT 1997 BIOSIS
- TI IN UTERO BONE MARROW TRANSPLANTATION OF FETAL BABOONS WITH MISMATCHED ADULT MARROW INITIAL OBSERVATIONS.
- L40 ANSWER 26 OF 29 BIOSIS COPYRIGHT 1997 BIOSIS
- TI ULTRASOUND FINDINGS IN GRAFT-VS.-HOST DISEASE FOLLOWING BONE MARROW TRANSPLANTATION.

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- L40 ANSWER 27 OF 29 BIOSIS COPYRIGHT 1997 BIOSIS
- TI ENGINEERING CRITERIA FOR BIO MATERIALS SOME THOUGHTS ON IN-SITU MEASUREMENTS.
- L40 ANSWER 28 OF 29 BIOSIS COPYRIGHT 1997 BIOSIS
- TI OBSTRUCTIVE JAUNDICE AFTER BONE MARROW TRANSPLANTATION.
- L40 ANSWER 29 OF 29 BIOSIS COPYRIGHT 1997 BIOSIS
- TI ANTI TUMOR ACTIVITY OF ANAEROBIC CORYNEBACTERIUM ISOLATED FROM THE HUMAN BONE MARROW.

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- => d 140 1,7,14,23 ti so ab
- L40 ANSWER 1 OF 29 BIOSIS COPYRIGHT 1997 BIOSIS
- TI Effect of noninvasive low intensity ultrasound on bone growth into porous-coated implants.
- SO Journal of Orthopaedic Research 14 (6). 1996. 901-906. ISSN: 0736-0266
- Noninvasive low intensity ultrasound has been shown to be AB an effective means of accelerating bone fracture healing in both animal and clinical studies. An in vivo canine study was designed to determine if noninvasive low intensity ultrasound could influence the rate and extent of boneggrowth into porous-coated implants. Twenty-two pairs of fully porous transcortical implants were inserted bilaterally into the femora of 12 dogs. In each dog, one femur served as a control and the other was subjected to daily ultrasound stimulation for 2, 3, or 4 weeks. Overall, the ultrasound-stimulated implants demonstrated an 18% increase in bone ingrowth compared with their contralateral controls (p = 0.02). Noninvasive low intensity ultrasound had its greatest effect in the first 2-3 weeks of stimulation. At 2 and 3 weeks, the ultrasound-stimulated implants showed 21 and 16% more ingrowth than their respective contralateral controls. Because noninvasive low intensity ultrasound had a positive effect on bone ingrowth in this experimental investigation, further research is suggested to assess the clinical potential for application to noncemented porous-coated total joint replacements.
- L40 ANSWER 7 OF 29 BIOSIS COPYRIGHT 1997 BIOSIS
- TI A Pseudo-Epidemic Involving Bone Allografts.
- SO Infection Control and Hospital Epidemiology 15 (12). 1994. 757-758. ISSN: 0899-823X
- AB Preimplantation cultures of four sterile bone allograft specimens grew Comomonas acidovorans and Pseudomonas species. An epidemiological investigation, including molecular subtyping methods, revealed that the allograft specimens were contaminated in a microbiology laboratory sonicator water bath.

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- L40 ANSWER 14 OF 29 BIOSIS COPYRIGHT 1997 BIOSIS
- TI Clinical evaluation of HTR polymer bone replacement qrafts in human mandibular class II molar furcations.
- SO Journal of Periodontology 65 (4). 1994. 342-349. ISSN: 0022-3492
- A biocompatible microporous composite of PMMA (poly-methyl-AB methacrylate), PHEMA (poly-hydroxyl ethyl methacrylate), and calcium hydroxide (HTR) or autogenous osseous coagulum (AOC) bone replacement grafts were evaluated in 15 pairs of mandibular molar Class II furcations in 9 patients. Following initial preparation, full thickness flaps were raised to gain access to the furcations; mechanical hand and ultrasonic root and defect debridement and chemical (tetracycline) root preparation were performed; paired furcations in each patient were randomly grafted with either HTR or AOC; and the host flaps replaced or slightly coronally positioned. Weekly, then monthly, deplaquing was performed until surgical re-entry at 6 to 12 months. Both treatments improved the clinical status of the treated furcations. Direct clinical measurements demonstrated essentially equivalent clinical results with both bone replacement graft materials related to most hard and soft tissue changes in the furcations. Differences in favor of HTR were found for horizontal residual furcation depth (2.4 mm vs. 3.9 mm), horizontal furcation fill (1.9 mm vs. 0.8 mm), and percent horizontal furcation fill (44.4% vs. 17.1%) (all P ltoreq 0.05 paired t test). These favorable results with HTR polymer are similar to several reports with other graft materials and with GTR barriers, and suggest that HTR polymer may be a useful therapeutic adjunct in the clinical management of grade II mandibular molar furcations. 1 . 11 11 21 21 21
- L40 ANSWER 23 OF 29 BIOSIS COPYRIGHT 1997 BIOSIS
 TI THE EVALUATION OF BONE REMODELING ABOUT ORTHOPEDIC
 IMPLANTS WITH ULTRASOUND.
- J ORTHOP RES 7 (4). 1989. 607-611. CODEN: JOREDR ISSN: 0736-0266 SO Total hip arthroplasty causes biomechanical changes in the normal AB femur, including a redistribution and concentration of stress. These mechanical alterations in the femur cause local remodeling and resorption that affect the geometry and mechanical properties of the bone. Two complementary ultrasonic techniques were used to study the local adaptive remodeling of bone due to prosthesis implantation. An ultrasonic wave propagation technique was used to determine elastic properties and a new scanning acoustic microscope (SAM) mapped the acoustic impedance profile of each section. The effects of the implantation of two types of hip prostheses, an uncemented bipolar prosthesis with an Austin-Moore type stem and a cemented Charnley prosthesis, were investigated. Both prostheses had a detrimental effect on local elastic properties as determined by acoustic velocity measurements. The SAM system provided information about local inhomogeneities in bone properties not obtainable by any other means. The acoustic impedance maps highlighted bone resorption and bone remodeling on a microstructural level.

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TI [Embolism and intramedullary femoral surgery]. Embolies et chirurgie femorale intra-medullaire.

AU Barre J; Lepouse C; Segal P

CS Departement d'Anesthesie-Reanimation CHU Reims, Hopital Maison Blanche, Reims.

SO REVUE DE CHIRURGIE ORTHOPEDIQUE ET REPARATRICE DE L'APPAREIL MOTEUR, (1997) 83 (1) 9-21.

Journal code: RMP. ISSN: 0035-1040; Julia 1899

TITLES OF A

فيجفه فالمبائحين الفياني المسا

CY France

DT Journal; Article; (JOURNAL ARTICLE) Journal;

LA French

FS Priority Journals

EM 9708

EW 19970801

All intramedullary femoral surgery entails embolic phenomena which explain peroperative collapses formally known as bone cement implantation syndrome, as well as perioperative fat embolism syndromes. Locally, the bigger the cavity is, the higher the number of accidents: 2.5-5 per cent for GUEPAR hinged-knee prosthesis, 1.75 per cent for total hip arthroplasty with long stem, and 0.1 per cent during classic THA with cement limited to the metaphysis. Anomalies in bone vascularization also increase risk: 10.5-13 per cent during prophylactic nailing for shaft metastases, 1-11.5 per cent during hemiarthroplasty cemented in osteoporotic bone of femoral neck fractures, and only 0.1 per cent during THA implanted because of arthrosis. Not only cement, but also rods, reamers, nails, implants, ultrasonic tool for cement

extraction, increase the pressure inside the cavity.

Methylmethacrylate is no longer the only incriminated factor, even if it is responsible for a major part of the compressive load. The intensity and duration of the pressure are correlated with the number of embolic phenomena and with measured cardiopulmonary parameters. The intracavity fat content is expelled (an empty cavity, as in THA revision, does not lead to embolic phenomena).

Antani. 11. 1172 Fig. 1 13. antonio 1

Then filters through the intraosseous veins whose diameter limit the size of the extruded embolic phenomena. The ultrasonography of the inferior vena cava shows innumerable fine particles and thrombi which are already organized under the influence of procoagulant factors released from the operative shield and which remain crumbly. These emboli cross the cardiac cavities. Transesophageal echocardiography (TEE), of recent use, does quantify the amount of right atrial filling, duration of echogenesis and size of particles: the result is higher in patients who underwent cemented versus noncemented THA: however the embolism score is no an indicator of seriousness because it is not correlated with cardiorespiratory manifestations; TEE shows only one fourth of the patent foramen ovale, whereas the atrial septal defect is surely one of the most efficient systemic invasion mechanisms to produce perioperative fat embolism. Lung response is most often asymptomatic, even if all patients undergoing intramedullary surgery display an increase in pulmonary vascular resistance which is managed by the right heart only, as well as pulmonary (and sometimes systemic) microvascular fat obstruction. Common operating room monitoring procedures do not detect successive embolic phenomena before they cause pulmonary arterial hypertension which then has repercussions on the left heart and in turn causes peroperative hemodynamic accidents. Only pulmonary arterial pressure measurement with a Swan-Ganz catheter gives early and durable signs of an intolerance to embolic load. Preventive treatment is surgical as there is an inverse relation between embolic marrow and marrow eliminated by large volume washes (which is often more effective than draining

). Cement indications in older patients as well as the choice of fixation techniques in femoral fractures must take into account the cardio-pulmonary condition of the patient. Resuscitation procedures dealing with these complications end in the patient's death in half of the cases. 41 m 80.

Check Tags: Animal; Support, Non-U.S. Gov't, CTBone Cements: AE, adverse effects from the or *Embolism, Fat: ET, etiology . d. foot is s Embolism, Fat: PP, physiopathology Embolism, Fat: TH, therapy English Abstract 47 1 1 2 2 4 Femoral Neoplasms: SU, surgery **Fracture Fixation, Intramedullary: AE, adverse effects Fracture Fixation, Intramedullary: MT, methods

*Hip Prosthesis: AE, adverse effects

Hip Prosthesis: MT, methods

*Knee Prosthesis: AE, adverse effects Knee Prosthesis: MT, methods

CN 0 (Bone Cements)

L53 ANSWER 2 OF 20 MEDLINE

MEDLINE AN 97096932

with their wi Repair of incomplete vertical root fractures in endodontically TI treated teeth--in vivo trials. Carther I in a

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AU
     Selden H S
     Department of Dental Medicine, Muhlenberg Hospital Center,
CS
     Bethlehem, PA, USA.
     JOURNAL OF ENDODONTICS, (1996 Aug) 22 (8) 426-9.
SO
     Journal code: I1K. ISSN: 0099-2399.
CY
     United States
                                      一位。但在中国的海绵域的 至江
DT
     (CLINICAL TRIAL)
     Journal; Article; (JOURNAL ARTICLE)
LA
FS
     Dental Journals; Dental
EM
     9702
     19970204
EW
     An in vivo clinical study was performed to evaluate the healing of a
AB
     new approach to the repair of incomplete vertical root fractures.
     The two-stage surgical procedure incorporated ultrasonic
     fracture cleaning, bonding of the fracture repair with
     silver glass-ionomer cement, placement of a bone
   graft material, and application of guided-tissue
     regeneration. Of the six roots in the study, five failed within 2 to
     11 months. One root continued to be symptom-free, without
     periodontal pocket formation for 1 yr, but then failed because of
     extension of the incomplete root fracture to the lingual of the
CT
     Check Tags: Female; Human; Male
                                       Alle Liberty D.
     *Bone Transplantation: MT, methods
      Cermet Cements: TU, therapeutic use
      Durapatite
     *Guided Tissue Regeneration
      Methacrylates
     *Tooth Fractures: SU, surgery
     *Tooth Root: IN, injuries
     *Tooth, Nonvital: SU, surgery
     Ultrasonic Therapy
     1306-06-5 (Durapatite)
RN
     0 (Amalgambond); 0 (Cermet Cements); 0 (Methacrylates)
CN
                                       Trolled we .
     ANSWER 3 OF 20 MEDLINE
L53
                                        Land of the land
AN
     96269825 MEDLINE
                                         Bucha
     Influence of marrow on ultrasonic velocity and attenuation
TI
     in bovine trabecular bone.
     Alves J M; Ryaby J T; Kaufman J J; Magee F.P; Siffert R S
AU
     Department of Orthopaedics, MS 1188, The Mount Sinai School of
CS
     Medicine, One Gustave L. Levy Place, New York, New York 10029, USA.
     1R43AR43045-01 (NIAMS)
NC
     CALCIFIED TISSUE INTERNATIONAL, (1996 May) 58 (5) 362-7.
SO
     Journal code: CGH. ISSN: 0171-967X.
CY
     United States
DT
     Journal; Article; (JOURNAL ARTICLE)
LA
     English
FS
     Priority Journals
     9611
EM
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Measurements of ultrasonic velocity and specific
AB
     differential attenuation (SDA) were obtained on 24 bovine trabecular
  bone specimens from the femoral condyles. The measurements
    were obtained using two pairs of ultrasonic transducers,
     one with a low nominal center frequency (500 kHz) and the other pair
    with a high nominal center frequency (1 MHz). The ultrasonic
     velocity and specific differential attenuation associated with the
   bone samples were determined both with and without marrow,
     i.e., replacing the marrow with water in the pores of the trabecular
   bone. Significant increases (2.1% and 2.9%) in the velocity
     of ultrasound were observed after removal of the
  marrow, for the low and high frequency transducer pairs,
    respectively. In contrast, significant decreases (-6.5% and -8.8%)
     in SDA were observed after removal of the marrow
     , for the low and high frequency transducer pairs, respectively. The
   bone densities (BD) of the samples were also determined
     using single photon absorptiometry (SPA). Correlations between
   ultrasonic parameters and bone densities for
     samples both with and without marrow were found to be similar. For
     example, for the 1 MHz transducer pair, the correlation between BD
     and velocity was r = 0. 86 with marrow, and r = 0.89 without marrow.
     This study also compared the results obtained using a contact (no
     water bath) technique and an insertion (with a water bath) technique
     of ultrasonic measurements. For the high frequency
     transducer pair, the correlation coefficients between the two
    methods were r = 0.99 and r = 0.93; for the velocity and specific
    differential attenuation, respectively. Similar results were found
     for the low frequency transducer pair as well. In addition,
     approximately equal correlations between BD and ultrasonic
     velocity and SDA were also found, indicating that contact and
     insertion measurements provide essentially, equivalent information.
     Check Tags: Animal; In Vitro; Support, Non-U.S. Gov't; Support, U.S.
CT
     Gov't, P.H.S.
      Absorptiometry, Photon
     *Bone and Bones: US, ultrasonography ( Cont.
      Bone Density
                                      a continuo.
     *Bone Marrow: US, ultrasonography
      Cattle
                                      Femur
                                     17 (2) (2) (2)
      Reproducibility of Results
                                     witics fir
      Ultrasonography: MT, methods
                                     William Ward I
                                     I polit, Can
L53
    ANSWER 4 OF 20 MEDLINE
                                     والمرابع والمحافظ فالمصاديد
AN
     96146925
                 MEDLINE
    96146925 MEDLINE
Bone changes in mucopolysaccharidosis VI in cats and the effects of
ΤI
    bone marrow transplantation: mechanical testing of long bones.
AU
     Norrdin R W; Simske S J; Gaarde S; Schwardt J D; Thrall M A
CS
     Department of Pathology, Colorado State University, Fort Collins
     80523, USA.
                                     divily, sis
NC
     AR37095 (NIAMS)
                                      E 41 6 52.
     BONE, (1995 Nov) 17 (5) 485-9.
SO
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                                      De att, Come
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Journal code: ASR. ISSN: 8756-3282.
CY
     United States
DT
     Journal; Article; (JOURNAL ARTICLE)
LA
     English
FS
     Priority Journals
EM
     9605
                                     the same and paper weapon
    Mucopolysaccharidosis VI (MPS VI) is a genetic lysosomal storage
AB
     disease in which a defect in aryl sulfatase B leads to accumulation
     of the glycosaminoglycan dermatan sulfate and abnormalities in the
     development of cartilage and bone. A feline model of this disease
     was used to evaluate the efficacy of bone marrow transplant (BMT)
     therapy. Long bones from MPS VI cats (N = 6) and MPS VI + BMT cats
     (N = 7) were compared with control cats (N = 11) and control + BMT
     cats (N = 5) in mechanical tests...Dissected femurs and tibias were
     subjected to three-point bending and a subgroup of tibias were
     tested with the mechanical response tissue analyzer (MRTA) in which
     vibration is used to measure tissue impedance. Cats with MPS VI had
     markedly decreased stiffness and strength in both bone (p < 0.01).
     There was no significant difference in the MPS VI + BMT group. In
     the tibias, there was also decreased stiffness and strength in the
     control + BMT group as compared tobcontrols (p < 0.05). However,
     when cross-sectional area was used to normalize for bone size there
    was good correlation with strength in both femurs (r = 0.907, p <
     0.01) and tibias (r = 0.915, p < 0.1), and there were no significant
     differences between groups in the modulus of elasticity. In the
     tibias, in which stiffness was measured by MRTA, there was
     significant correlation with three-point bending stiffness. These
     results indicate that, in cats with MPS VI, the decreases in
     stiffness and strength of long bones can be largely accounted for by
     the decrease in bone size (osteopenia) that is present.
     Check Tags: Animal; Comparative Study; Female; Male; Support, U.S.
CT
     Gov't, P.H.S.
                                     1 1 1 1
      Biomechanics
      Bone Diseases, Metabolic: PP, physiopathology
     Cats
                                    2. List. 1. 1
      Disease Models, Animal
                                     ं वार्ति व र ... १०
      Femur: PA, pathology
                                     44. - 1 - 1 - 1 - 1
      Femur: RA, radiography
      Mucopolysaccharidosis VI: PP, physiopathology
      Mucopolysaccharidosis VI: RA, radiography
     *Mucopolysaccharidosis VI: TH, therapy
      Regression Analysis
                                     الشائل والمرابع والراب
      Tibia: PA, pathology
                                     1 10 4 44
      Tibia: RA, radiography
                                    ith in Little
      Vibration
                                     . C. 1), E. 1
                                     ಕ ಕನ್ನಡಿಸುತ್ತದ
L53
     ANSWER 5 OF 20 MEDLINE
                                     and the letters.
AN
     95358699
                 MEDLINE
                                     cerpolit Lake
     Ultrasonic resection of neuroblastomas. Long-term local
TI
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tumor control.

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ΑU
     Applebaum H; Feinfeld L E
     Division of Pediatric Surgery, Kaiser Permanente Medical Center, Los
CS
     Angeles, Calif., USA..
SO
     ARCHIVES OF SURGERY, (1995 Aug) 130 (8) 905-8.
     Journal code: 8IA. ISSN: 0004-0010.
CY
     United States
     Journal; Article; (JOURNAL ARTICLE)
DT
LA
     English
     Abridged Index Medicus Journals; Priority Journals; Cancer Journals
FS
EM
     OBJECTIVE: To evaluate the effectiveness of ultrasonic
AB
   aspiration in achieving local tumor control of bulky
     neutroblastomas that are considered unresectable by conventional
     means. DESIGN: A retrospective review of 12 patients undergoing
   ultrasonic aspiration as part of multimodal
     treatment protocols. SETTING: A pediatric oncology referral center.
     PATIENTS: Twelve children with large neuroblastomas located in the
     abdomen (n = 5), chest (n = 5), and neck (n = 2). Follow-up was 1.5
     to 7.5 years. INTERVENTIONS: Ultrasonic aspiration
     of the tumor was primary therapy (n = 7) or followed initial
     chemotherapy (n = 5). All patients \frac{1}{2} underwent subsequent chemotherapy
     or autologous bone marrow
   transplantation. MAIN OUTCOME MEASURES: The incidences of
     residual disease and local recurrence were examined. RESULTS:
     Tumor-related symptoms were effectively relieved in all 12 patients.
     Recurrent local disease led to death in two. One patient died of
     distant metastases. CONCLUSIONS: Ultrasonic
   aspiration minimized blood loss and did not cause damage to
     adjacent organs. It provided nearly complete tumor resection,
     enhanced the effectiveness of chemotherapy protocols, and decreased
     the need for supportive care. Ultrasonic, j.
   aspiration is a safe and effective method for obtaining
     local control of large neuroblastomas. 🔬 📈
CT
     Check Tags: Human
     *Abdominal Neoplasms: TH, therapy
      Child
                                      ... " en Ch 42
      Child, Preschool
                                     Addition Cal
     Follow-Up Studies
*Head and Neck Neoplasms: TH, therapy
      Infant
                                      ta, Lande't (a.
      Infant, Newborn
                                       anda ate
     *Neoplasm Recurrence, Local: TH, therapy
      Neoplasm, Residual
                                      المتناكلية بثلاثات
     *Neuroblastoma: TH, therapy
      Retrospective Studies
                                      A 16 34 Trees Ar
     *Suction: MT, methods
                                      21 15 70 W DO 1
      Treatment Outcome
     *Ultrasonography, Interventional: MT, methods
                                      1. 1. 1. 1. 1. 1. 1. 1. 1. 3. 1. 3.
     ANSWER 6 OF 20 MEDLINE
L53
                                      a Alla Lagarda
AN
     95193080 MEDLINE
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ΤI
     Optimization of the magnetic field used for immunomagnetic islet
     purification.
AU
     Davies J E; James R F; London N J; Robertson G S
     Department of Surgery, University of Leicester, United Kingdom.
CS
    TRANSPLANTATION, (1995 Mar 15) 59 (5) 767-71.
SO
     Journal code: WEJ. ISSN: 0041-1337.
CY
     United States
DT
     Journal; Article; (JOURNAL ARTICLE)
LA
     English
     Priority Journals; Cancer Journals
FS
EM
     Purification of islets based on the physical differences in density
AB
     between exocrine and islet tissue reduces islet yields and remains
     one of the factors limiting islet transplantation. Immunomagnetic
     cell separation methods provide an attractive, highly specific
     alternative capable of rapid, gentle, high volume cell separation,
     but they require modification to be applied effectively to
     separation of the much larger tissue fragments involved in islet
     purification. In this study, mAb to rat exocrine tissue were coupled
     to 4.5-microns magnetic beads (M450 Dynabeads), before incubation
     with standard aliquots of rat pancreatic digest. The effect on
     immunomagnetic islet purification of modifications in the magnetic
     field and the method of digest release into the field were
     investigated. The results showed that using vibration to maintain
     the immunomagnetically labeled digest in suspension in tissue
     culture medium whose density had been increased by the addition of
     BSA, significantly improved the purification process. When the
     digest suspension was slowly released and allowed to drift under
     gravity through a magnetic field applied across a narrow tube, the
     use of a quadripole of permanent magnets improved results compared
     with bipolar or unipolar magnetic fields. By modifying
     immunomagnetic cell separation techniques in this way, a median
     islet yield of 77% could be reliably achieved while removing 88% of
     the contaminating exocrine tissue. The use of such methods in human
     islet purification would significantly increase the yield of islets
     from each donor pancreas and increase the success rate of
     transplantation from single donors. Check Tags: Animal; Comparative Study; Support, Non-U.S. Gov't
CT
      Amylases: AN, analysis
                                    o La Ego Lad
     *Immunomagnetic Separation
      Insulin: AN, analysis
     *Islets of Langerhans: CY, cytology
      Islets of Langerhans Transplantation: PA, pathology
     Magnetics
                                     out of the attention
      Pancreas: CY, cytology
                                    ed asa gita
     Serum Albumin, Bovine: PD, pharmacology
     Vibration
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11061-68-0 (Insulin)

EC 3.2.1.- (Amylases); 0 (Serum Albumin, Bovine)

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y and the ally artif h 4.15

RN

CN

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ANSWER 7 OF 20 MEDLINE
L53
     95149316
                 MEDLINE
AN
ΤI
     [The use of demineralized bone brephomatrix in the plastic repair of
     different postoperative defects in the jaws].
     Ispol'zovanie demineralizovannogo kostnogo brefomatriksa pri
     plastike razlichnykh posleoperatsionnykh defektov cheliustei.
     Samsonov V E; Volova L T
ΑU
     STOMATOLOGIIA, (1994 Jul-Sep) 73 (3) 35-7.
SO
     Journal code: V1M. ISSN: 0039-1735.
CY
     RUSSIA: Russian Federation
DT
     Journal; Article; (JOURNAL ARTICLE)
LA
     Russian
FS
     Dental Journals
EM
     9505
     The aim of this research was assessment of the results of bone
AB
     brephoplasty of the jaws. Bone tissue defects after cystectomy,
     granulectomy, and tooth removal were filled with
     fragmented transplant, demineralized osseous brephomatrix.
     Low-frequency ultrasound was used for antibacterial
     treatment of the recipient osseous bed. A total of 103 patients were
     operated on, brephoplasty was carried out in 60. Demineralized
     osseous brephomatrix is characterized by excellent plastic and
     osteoinductive properties, due to which bone regeneration processes
     are completed 1.5-2 times sooner in comparison with the control.
     Check Tags: Comparative Study; Human
CT
      Adult
                                     in the last
      Ambulatory Surgery
     *Bone and Bones: EM, embryology Alexand 10 1
      Bone Demineralization Technique
     *Bone Transplantation: MT, methods
      English Abstract
     *Fetal Tissue Transplantation: MT, methods
     *Jaw Diseases: SU, surgery
     Middle Age
     *Postoperative Complications: SU, surgery
      Stomatognathic Diseases: SU, surgery
                                      Lateral and the
L53
     ANSWER 8 OF 20 MEDLINE
                                     95070273 MEDLINE
AN
     Papillary thyroid carcinoma after total body irradiation.
TI
     Uderzo C; van Lint M T; Rovelli A; Weber G; Castellani M R;
AU
     Bacigalupo A; Masera N; Cohen A Department of Paediatric Haematology and Oncology, S Gerardo
CS
     Hospital, University of Milan, Monza, Italy...
     ARCHIVES OF DISEASE IN CHILDHOOD, (1994 Sep) 71 (3) 256-8.
SO
     Journal code: 6XG. ISSN: 0003-9888 A Companio
CY
     ENGLAND: United Kingdom
DT
     Journal; Article; (JOURNAL ARTICLE)
LA
     English
     Abridged Index Medicus Journals; Priority Journals
FS
\mathbf{EM}
     9502
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de, necelor.

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Two children developed papillary thyroid carcinoma after allogeneic
AB
  bone marrow transplantation (BMT)
     probably due to radiotherapy during remission and pretransplantation
     conditioning. Establishing a relationship between the cellular
     thyroid stimulating hormone (TSH) effect and development of
     carcinoma in cases with high serum TSH concentrations is difficult.
     After BMT, patients should be regularly followed up with thyroid
   ultrasound and, when nodularity is found, fine needle
   aspiration and/or open biopsy are recommended.
CT
     Check Tags: Case Report; Human; Male
      Bone Marrow Transplantation
     *Carcinoma, Papillary: ET, etiology
      Child
      Child, Preschool
      Follow-Up Studies
     *Leukemia, Lymphocytic, Acute, L1: TH, therapy
     *Neoplasms, Second Primary: ET, etiology
     *Thyroid Neoplasms: ET, etiology
      Thyrotropin: BL, blood
     *Whole-Body Irradiation: AE, adverse effects
RN
     9002-71-5 (Thyrotropin)
L53
     ANSWER 9 OF 20 MEDLINE
                                      anty will be a rest
     94095264
                  MEDLINE
AN
     Measurement of the interface between bone and immediate
ΤI
     endosseous implants: a pilot study in dogs.
     Ettinger R L; Spivey J D; Han D H; Koorbusch G F
ΑU
     Department of Prosthodontics, University of Iowa, Iowa City..
CS
     INTERNATIONAL JOURNAL OF ORAL AND MAXILLOFACIAL IMPLANTS, (1993) 8
SO
                                       found, gine
     Journal code: GJR. ISSN: 0882-2786.
CY
     United States
     Journal; Article; (JOURNAL ARTICLE)
DT
LA
     English
                                     1 1 4 4 4
     Dental Journals; Dental
FS
EM
     9404
AB
     This study developed methodology to evaluate the healing of 15 IMZ
     implants placed in the sockets of freshly extracted
     mandibular premolars in three adult mongrel dogs. Six surgical sites
     were prepared in each animal and one site was left as a control.
     Porous hydroxyapatite was placed around the top half of two implants
     in each animal; one implant was also covered with
     polytetrafluoroethylene membrane. All implants were covered with a
     mucoperiosteal flap and sutured closed. Upon animal sacrifice, the
     mandibles were retrieved for block dissection and the blocks were
     embedded in plastic. Serial longitudinal wafers were ground to 50 to
     100 microns and stained. Standard photomicrographs were taken so
     that tracings of the implant-bone, interface
     could be measured on a sonic digitizer. The mean percent
     amount of bone to plasma-sprayed portion of the implant on the
     longitudinal sections was 47.9\% + \frac{5.2\%}{10.5} with a range of 17.4% to
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84.7%. The horizontal sections were measured at 53.5% +/- 3.7% with
    a range of 0.0% to 100%. This pilot study suggests that IMZ implants
    placed in fresh extraction sockets can achieve a degree of
     intimate contact with bone; however, wide variation in the
   implant-to-bone interface was found even in the
    same specimen.
                                    नाध्यक्षाहरूमा अभूम र द्वार
CT
    Check Tags: Animal
     *Alveolar Process: PH, physiology
     *Bone Regeneration
     *Dental Implantation, Endosseous: MT, methods
     Dogs
     *Osseointegration
     Pilot Projects
      Surface Properties
     Time Factors
     Tooth Extraction
     Wound Healing
    ANSWER 10 OF 20 MEDLINE
L53
              MEDLINE
AN
    93329836
     The microsurgical transplantation of vascularized
TI
   bone from a human fetus to man].
    Mikrokhirurgicheskaia peresadka vaskuliarizirovannoi kosti ot
    chelovecheskogo ploda cheloveku.
AU
    KHIRURGIIA, (1993 Jan) (1) 51-6.
SO
    Journal code: KV3. ISSN: 0023-1207
CY
    RUSSIA: Russian Federation
DT
    Journal; Article; (JOURNAL ARTICLE)
LA
    Russian
EΜ
    9310
    On the basis of the possibilities of microsurgical techniques and
AB
    the results of some experiments conducted for the purpose of
    studying the "microsurgical" morphometry of various areas of the
    body of a fetus, determining the viability of fetal tissues in cold
    and thermal anoxia, working out microsurgical methods and the
    operative techniques, and solving organizational problems, three
    operation were carried out in the clinic for transplantation of
    vascularized fetal humerus (in one case together with the ulna and
    radius) to three patients with defects in the bone skeleton of the
    hand. Immunosuppression was not undertaken. Control over the
    viability of the brephotransplant was conducted by
   ultrasonic dopplerography on a vascular pedicle,
    radioisotope scintigraphy, roentgenography, and histological study
    in aspiration biopsy. The brephotransplant was
   removed in one case due to suppuration 4 months after the
    operation. In the other two cases with a follow-up period of over 6
    months the brephotransplants are viable.
    Check Tags: Case Report; Female; Human; Male
CT
     Adolescence
     *Bone and Bones: BS, blood supply,
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*Bone and Bones: EM, embryology
Bone Neoplasms: RA, radiography
Bone Neoplasms: SU, surgery
*Bone Transplantation: MT, methods
Child
Chondroma: RA, radiography
Chondroma: SU, surgery
 English Abstract
*Fetal Tissue Transplantation: MT, methods
 Finger Injuries: SU, surgery
Fingers: RA, radiography
Fingers: SU, surgery
Graft Survival
*Microsurgery: MT, methods
Middle Age
 Suture Techniques
Thumb: IN, injuries
 Thumb: RA, radiography
Thumb: SU, surgery
```

L53 ANSWER 11 OF 20 MEDLINE -3.76%5, 6...9

AN 93197914 MEDLINE

TI [Reposition of fragments of the posterior surface of the vertebral edge with intraoperative ultrasound guidance].

Die Reposition von Fragmenten der Wirbelkorperhinterkante unter intraoperativer sonographischer Kontrolle.

AU Degreif J; Wenda K; Huwel N; Ritter G

CS Klinik und Poliklinik fur Unfallchirurgie, Johannes Gutenberg-Universitat Mainz..

SO UNFALLCHIRURG, (1993 Feb) 96 (2) 88-92.

Journal code: UNP. ISSN: 0177-5537. nettends:

CY GERMANY: Germany, Federal Republic of

DT Journal; Article; (JOURNAL ARTICLE)

LA German

EM 9306

The question of whether fragments of the posterior vertebral surface AB have to be removed in every case remains to be answered. Nevertheless, in many cases it is important to establish the situation inside the spinal canal intraoperatively. To this end we have used intraoperative ultrasound in 21 cases. The results have always corresponded closely with the findings of preoperative and postoperative computed tomography. Under the influence of this method we have modified our operative procedure. The technique of intraoperative ultrasound and our current operative practice are described in the present paper. We use typical cases to show that intraoperative ultrasound of the spinal canal is a very useful technique for several reasons: Accurate depiction of the spinal canal is always possible without destabilizing the dorsal vertebral structures. The risks and disadvantages of intraoperative myelography are avoided. The method is easy and can be repeated as often as désired, an important

> 99-92. -7, Tic of (L1)

advantage in checking the success of the removal of fragments and in reviewing the situation after transpedicular cancellous bone grafting. Check Tags: Female; Human; Male CTAdult English Abstract - in mindelindelinden mitter Git Intraoperative Complications: SU, surgery *Intraoperative Complications: US, ultrasonography Lumbar Vertebrae: IN, injuries Lumbar Vertebrae: SU, surgery Lumbar Vertebrae: US, ultrasonography *Spinal Fractures: SU, surgery Spinal Fractures: US, ultrasonography in a *Spinal Stenosis: SU, surgery Spinal Stenosis: US, ultrasonography Thoracic Vertebrae: IN, injuries Thoracic Vertebrae: SU, surgery Thoracic Vertebrae: US, ultrasonography L53 ANSWER 12 OF 20 MEDLINE 12/645,6,9 91042900 AN MEDLINE A newly recognized fastidious gram-negative pathogen as a cause of TI fever and bacteremia [see comments]. Comment in: N Engl J Med 1990 Dec 6;323(23):1625-7 CM Slater L N; Welch D F; Hensel D; Coody D W AU CS Department of Medicine, University of Oklahoma Health Sciences Center, College of Medicine, Oklahoma City. NEW ENGLAND JOURNAL OF MEDICINE, (1990 Dec 6) 323 (23) 1587-93. SO Journal code: NOW. ISSN: 0028-4793. CY United States Marie was Journal; Article; (JOURNAL ARTICLÉ) DT LA FS Abridged Index Medicus Journals; Priority Journals; Cancer Journals EM9102 BACKGROUND. We identified a motile, curved, gram-negative bacillus AB as the cause of persistent fever and bacteremia in two patients with symptomatic human immunodeficiency virus infection. The same organism was subsequently recovered from a bone marrow-transplant recipient with septicemia and from two immunocompetent persons with week-long febrile illnesses. All the patients recovered after antimicrobial therapy. METHODS AND RESULTS. Primary cultures of blood processed by centrifugation after blood-cell lysis yielded adherent, white, iridescent, morphologically heterogeneous colonies in 5 to 15 days. Subcultures grew in four days on chocolate, charcoal-yeast extract, or blood agar. The organisms stained weakly with safranin and were not acid-fast. Fluorescent-antibody tests for legionella and francisella were negative. Biochemical reactivity was minimal and difficult to ascertain. Agar-dilution testing revealed in vitro susceptibility to most antimicrobial agents tested. The cellular fatty acid composition of the isolates was similar, resembling that of

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Rochalimaea quintana or brucella species, but not Helicobacter
     pylori or species of campylobacter or legionella. As resolved by gel
     electrophoresis, cell-membrane preparations of all isolates
     contained similar proteins, with patterns that differed from that of
     R. quintana. Patterns of digestion of DNA from all isolates by EcoRV
     restriction endonuclease were virtually identical and also differed
     from that of R. quintana. On immunodiffusion, serum from one
     convalescent patient produced a line of identity with
   sonicates of all five isolates. CONCLUSIONS. This pathogen
     may have been unidentified until now because of its slow growth,
     broad susceptibility to antimicrobial agents, and possible
    requirement of blood-cell lysis for recovery in culture. It should be sought as a cause of unexplained fever, especially in persons
     with defective cell-mediated immunity....
     Check Tags: Case Report; Female; Human; Male
CT
      Adult
     *Bacterial Infections: MI, microbiology
      Bacterial Proteins: AN, analysis
      Blood: MI, microbiology
      Drug Resistance, Microbial
      DNA, Bacterial: AN, analysis 3/646 \sqrt{5.09}
     *Fever: MI, microbiology
      Gram-Negative Bacteria: DE, drug effects
     *Gram-Negative Bacteria: IP, isolation & purification
     *HIV Infections: CO, complications
     Middle Age
      Opportunistic Infections: CO, complications
     *Opportunistic Infections: MI, microbiology
     *Septicemia: MI, microbiology
     0 (Bacterial Proteins); 0 (DNA, Bacterial) of
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     ANSWER 13 OF 20 MEDLINE
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                                     all hall in part in
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                  MEDLINE
AN
     Antibody response to Staphylococcus aureus surface proteins in
ΤI
     rabbits with persistent osteomyelitis after treatment with
     demineralized bone implants.
     Thomas V L; Sanford B A; Keogh B S; Triplett R G
ΑU
     Department of Microbiology, University of Texas Health Science
CS
     Center, San Antonio 78284-7758.
NC
     1 T32 AI07271 (NIAID)
     R01 AI17242 (NIAID)
     85260
     INFECTION AND IMMUNITY, (1989 Feb) 57 (2) 404-12.
SO
     Journal code: GO7. ISSN: 0019-9567 endects
CY
     United States
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     Journal; Article; (JOURNAL ARTICLE)
DT
LA
     English
     Priority Journals; Cancer Journals
FS
EM
     A rabbit model was used to study the effect of allogeneic
AB
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demineralized bone powder (DBP) implants on the persistence of Staphylococcus aureus osteomyelitis. Thirty-one rabbits with chronic osteomyelitis of the tibia established by day 21, were started on systemic antibiotics followed by either no additional treatment or debridement plus either DBP (with or without supplemental antibiotics) or supplemental antibiotics only. On day 21, cultures showed a mean of 2 x 10(4) CFU/mg of debrided osseous material. By day 70, the treatment most effective in clearing infection was found in animals treated with supplemental antibiotics only (mean of 142 +/- 116 CFU/mg). In contrast, infection persisted at a 7- to 10-fold-higher level in animals receiving DBP with and without supplemental antibiotics; these results suggest that DBP contributed to persistence of infection. Longitudinal sera were tested again staphylococcal sonic extracts by immunoblot. Detection of numerous probe-positive bands indicated complex but remarkably similar antibody responses among infected animals. Antibodies attached directly to the cell surfaces of staphylococci as shown by immunogold and blocked the binding of organisms to HEp-2 and human fetal lung cells in a radioadherence assay. Antibodies could be absorbed out by intact organisms and were unreactive by immunoblot against antigens derived from cells pretreated with pronase, proteinase K, or lysostaphin. These results indicate that the major response was directed against staphylococcal cell surface proteins. Surprisingly, only one major band (molecular weight, approximately 12,000) was detected when a homologous in vivo antigen preparation was studied by immunoblot. Antibody reactive against this peptide did not appear to react with staphylococci grown in vitro.

Check Tags: Animal; Support, U.S. Gov't, P.H.S. grown in vitro. *Antibodies, Bacterial: BI, biosynthesis [1] Antigen-Antibody Reactions Antigens, Bacterial: IM, immunology Buckling Antigens, Surface: IM, immunology Charles : Bacterial Adhesion *Bone and Bones: TR, transplantation *Bone Transplantation to most was to be ! Cells, Cultured 41 14 14 16 17 Immune Sera: AN, analysis mildingly keep. Immunoblotting . diy 1. 1:. *Membrane Proteins: IM, immunology Minerals: ME, metabolism al Long coll *Osteomyelitis: IM, immunology " and cate by i Osteomyelitis: MI, microbiology and post-Osteomyelitis: TH, therapy

Radioimmunoassay
*Staphylococcal Infections: IM, immunology
Staphylococcal Infections: MI, microbiology
Staphylococcal Infections: TH, therapy
*Staphylococcus aureus: IM, immunology
Staphylococcus aureus: IM, physiology
Staphylococcus aureus: PH, physiology

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Staphylococcus aureus: UL, ultrastructure
          0 (Antibodies, Bacterial); 0 (Antigens, Bacterial); 0 (Antigens,
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          Surface); 0 (Membrane Proteins); 0 (Minerals)
          ANSWER 14 OF 20 MEDLINE
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                                    MEDLINE
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          84125277
                                                                           milinga appropriation of contest a
          Sonography of the gallbladder in bone marrow transplant patients.
ΤI
ΑU
          Frick M P; Snover D C; Feinberg S B; Salomonowitz E; Crass J R;
SO
          AMERICAN JOURNAL OF GASTROENTEROLOGY, (1984 Feb) 79 (2) 122-7.
          Journal code: 3HE. ISSN: 0002-9270.
CY
          United States
          Journal; Article; (JOURNAL ARTICLE)
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          English
          Priority Journals; Cancer Journals
FS
\mathbf{E}\mathbf{M}
          Nonshadowing opacities in the gallbladder (sludge) occurred in nine
AΒ
          of 44 bone marrow transplant patients as a nonspecific finding.
          Sludge occurring within 2 wk of bone marrow transplant was
          transient. Later, sludge accompanied hepatic graft versus host
          disease in seven of 10 patients with this complication of bone
          marrow transplant. During the course of graft versus host disease,
          disappearance of sludge matched clinical improvement. Persistence of
          sludge in patients with hepatic graft versus host disease was
          associated with a poor prognosis. The gallbladder of one patient who
          underwent cholecystectomy exhibited histopathologic findings of
          graft versus host disease.
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          Check Tags: Female; Human; Male
            Adolescence
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            Adult
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            Anemia, Aplastic: TH, therapy
          *Bone Marrow: TR, transplantation (1994)
          *Bone Marrow Transplantation
                                                                            70.
            Child
            Child, Preschool
                                                                            . . )
          *Gallbladder: PA, pathology
          *Graft vs Host Disease: DI, diagnosis
            Infant
            Leukemia: TH, therapy
                                                                            1151: 1., (:
          *Liver Diseases: DI, diagnosis
                                                                            1 1.3 a . . . .
            Liver Function Tests
                                                                            DOMES 1.3.17 . W. 1
            Lymphoma: TH, therapy
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            Prognosis
                                                                            Child officer Co.
          *Ultrasonics: DU, diagnostic use
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L53
          ANSWER 15 OF 20 MEDLINE
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          81154396
                                    MEDLINE
AN
          81154396 MEDLINE The Application of the Medical Medica
TI
          transplantation in aplastic anemia.
AU
          Montgomery R R; Ducore J M; Githens J H; August C S; Johnson M L
NC
          RR-69 (NCRR)
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TRANSPLANTATION, (1980 Aug) 30 (2) 90-6.
SO
     Journal code: WEJ. ISSN: 0041-1337.
CY
     United States
     Journal; Article; (JOURNAL ARTICLE)
DT
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     English
     Priority Journals
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                                      न्यार्थिक स्थापन विकास स्थापन न्यार्थ
EM
     8107
     Treatment of acquired aplastic anemia with androgens has been
AB
     occasionally associated with the development of hepatic tumors. We
     have studied a 13-year-old boy with idiopathic aplastic anemia in
     whom oxymetholone treatment was associated with a partial
     hematological remission. Thirty-four months later, however, the
     patient developed multiple hepatic tumors. When oxymetholone therapy
     was discontinued, the aplastic anemia relapsed. He then underwent
     bone marrow transplantation from his HLA-A, B, and D-compatible
     sibling. This was followed by hematological and immunological
     reconstitution. The hepatic tumors underwent progressive regression
     after bone marrow transplantation. The patient is now 3 years
     post-bone marrow transplantation and is in complete remission of his
     aplastic anemia with no evidence of detectable liver tumors.
     Check Tags: Case Report; Human; Male; Support, U.S. Gov't, P.H.S.
CT
      Adolescence
     *Anemia, Aplastic: CO, complications 🛴
      Anemia, Aplastic: DT, drug therapy
     *Bone Marrow: TR, transplantation
     *Bone Marrow Transplantation
      Liver Neoplasms: CI, chemically induced
      Liver Neoplasms: DI, diagnosis
     *Liver Neoplasms: TH, therapy
     *Oxymetholone: AE, adverse effects..ia Variable of
      Transplantation, Homologous
                                      A Cover Dominicant
      Ultrasonics: DU, diagnostic use ith table, atth
RN
     434-07-1 (Oxymetholone)
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                                       figur months
     ANSWER 16 OF 20 MEDLINE
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                  MEDLINE
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     80162499 MEDLINE negligible 180162499 Osteopoietin-humoral induction factor in osteogenesis.
     80162499
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AU
     Amler M H; Gold W
     JOURNAL OF PERIODONTOLOGY, (1980 Apr.) 51 (4) 185-9.
SO
     Journal code: JMT. ISSN: 0022-3492.
CY
     United States
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     Journal; Article; (JOURNAL ARTICLE) detacted
DT
     English
LA
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     Priority Journals; Dental Journals
FS
EM
     8008
     A heat-stable, glycoprotein-like material, osteopoietin, produced
AB
     during bone marrow regeneration, has been shown to induce
   bone formation when implanted in the rat eye. The
     material was separated by ultrasonic treatment or by acid
     buffer (pH 3-5) from sponges implanted in the
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marrow. The extracted material free of

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bone or cell solids, induced bone formation in the
     anterior eye chamber of the rat, whereas the cell solids and control
     sponges similarly implanted did not.
CT
     Check Tags: Animal; Support, U.S. Gov't, P.H.S.
      Bone and Bones: PA, pathology
      Bone Regeneration
                                       2 8 50 F 1 1950
      Eye: AH, anatomy & histology
      Glycoproteins: IP, isolation & purification
     *Glycoproteins: PH, physiology
      Metaplasia
     *Osteogenesis
      Rats
     0 (osteopoietin); 0 (Glycoproteins)
CN
                                   مستورية سيوان المالية المالية المالية المالية
     ANSWER 17 OF 20 MEDLINE
L53
AN
     79190914
                  MEDLINE
     [Possibilities of using ultrasonic tools in changing
TI
     endoprostheses].
     Moglichkeiten der Anwendung von Ultraschallwerkzeug bei
     Endoprosthesenwechsel.
     Nieder E; Engelbrecht E; Roder U; Strickle E
ΑU
     CHIRURG, (1979 Apr) 50 (4) 257-61.
SO
     Journal code: D5U. ISSN: 0009-4722.
     GERMANY, WEST: Germany, Federal Republic of
CY
     Journal; Article; (JOURNAL ARTICLE)
DT
LA
     German
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FS
     Priority Journals
EM
     7910
AB
     In joint replacement surgery an exchange of endoprostheses is
     technically most difficult, time consuming, and extremely unpleasant for the patient. Removal of the implant without
     damaging the bone entails many problems. Experience has
     shown that, in addition to the normal operative technique, the
   ultrasonic method may be very helpful. Ultrasonic
     implements that melt thermoplastic, implants facilitate the
   removal of those implants (e.g., polymethylmethacrylate,
     polyethylene), protect the tissue, and save time. This method is not
     an alternative to the normal operative technique, but an additional
     help.
                                      12 G 15 In
CT
     Check Tags: Human
      English Abstract
                                     Ulary of the
     *Joint Prosthesis
     *Ultrasonics: IS, instrumentation
      Orthopedic Equipment
     ANSWER 18 OF 20 MEDLINE
L53
                                      A poddia ok
AN
     77247465
                MEDLINE
TI
     Obstructive jaundice after bone marrow transplantation.
AU
     Lipshutz G R; Katon R M; Lee T G
SO
     GASTROENTEROLOGY, (1977 Sep) 73 (3) 565-9.
     Journal code: FH3. ISSN: 0016-5085.
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CY
     United States
     Journal; Article; (JOURNAL ARTICLE)
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LA
     Abridged Index Medicus Journals; Priority Journals
FS
EM
     Jaundice after bone marrow transplantation is usually a consequence
AB
     of graft versus host disease. Reported is a patient who presented
     with obstructive jaundice several months after a successful marrow
     allograft. Despite a benign bone marrow examination, abdominal
     ultrasound, upper gastrointestinal series, and endoscopic biopsy
     were utilized to diagnose recurrent leukemia at the pancreatic head
     and descending duodenum. The entities of graft versus host disease
     as related to jaundice, and gastrointestinal leukemia, in the
     presence of a "remission" bone marrow, are reviewed.
CT
     Check Tags: Case Report; Human; Male
      Biopsy
     *Bone Marrow: CY, cytology
     *Bone Marrow: TR, transplantation
     *Bone Marrow Transplantation
      Child
                                   63,5616,5
     *Cholestasis: ET, etiology
      Duodenal Neoplasms: CO, complications
      Duodenal Neoplasms: PA, pathology
      Duodenal Neoplasms: RA, radiography
      Graft vs Host Reaction
      Intestinal Neoplasms: PA, pathology it j
     *Leukemia: CO, complications
      Leukemia: DI, diagnosis
      Leukemia: PA, pathology
      Leukemia: RA, radiography
      Pancreatic Neoplasms: CO, complications
      Pancreatic Neoplasms: RA, radiography
      Recurrence
                                     while the altered in
      Transplantation, Homologous
      Ultrasonics: DU, diagnostic use
                                     BELLEVATOR OF A I
     ANSWER 19 OF 20 MEDLINE
L53
                                     Mala
AN
     73073617
                  MEDLINE
     Soluble H-2 antigens: effect on graft-versus-host reaction and
TI
     factors influencing its effect on host-versus-skin-graft reaction.
     Halle-Pannenko O; Martyre M C; Mathe G
ΑU
     TRANSPLANTATION PROCEEDINGS, (1972 Dec) 4 (4) 517-21.
SO
     Journal code: WE9. ISSN: 0041-1345.
CY
     United States
     Journal; Article; (JOURNAL ARTICLE)
\mathtt{DT}
LA
     English
FS
     Priority Journals
EM
     7304
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CT
     Check Tags: Animal
      Bone Marrow: CY, cytology
      Bone Marrow: TR, transplantation
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Bone Marrow Transplantation
*Graft vs Host Reaction
   Graft Rejection
   Hemagglutination Inhibition Tests
*Histocompatibility Antigens
   Liver: CY, cytology
                                                                                        THE SECURE AND A MADE OF THE SECTION OF THE SECTION
   Liver: IM, immunology
   Lymph Nodes: CY, cytology
   Lymph Nodes: TR, transplantation
   Mice
   Mice, Inbred C57BL
   Radiation Chimera
*Skin: TR, transplantation
 *Skin Transplantation
                                                                                      المستنجة فأقيسا فالماليوليات فالمنابع والأدامة فسقاله
   Solubility
*Transplantation Immunology
   Transplantation, Homologous
   Ultrasonics
ANSWER 20 OF 20 MEDLINE
                                                                                      - 2546,529
68195009 MEDLINE
Thymus-marrow immunocompetence. 3. The requirement for living thymus
cells.
Claman H N; Chaperon E A; Selner J C
PROCEEDINGS OF THE SOCIETY FOR EXPERIMENTAL BIOLOGY AND MEDICINE,
 (1968 Feb) 127 (2) 462-6.
Journal code: PXZ. ISSN: 0037-9727.
United States
Journal; Article; (JOURNAL ARTICLE)
English
Priority Journals
6807
Check Tags: Animal
*Antibody Formation
 *Bone Marrow: IM, immunology
   Bone Marrow: TR, transplantation
   Bone Marrow Transplantation
   Erythrocytes: IM, immunology
   Injections, Intraperitoneal
   Injections, Intravenous
   Mice
 *Radiation Effects
   Rats
   Sheep
                                                                                      فالرفحة خميما الرفيات
   Spleen: IM, immunology
   Thymectomy
                                                                                           3 3
 *Thymus Gland: IM, immunology
                                                                                          de meilonine da. L.
   Thymus Gland: RE, radiation effects
Thymus Gland: TR, transplantation
 *Transplantation Immunology
   Ultrasonics
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- L54 ANSWER 1 OF 53 MEDLINE
- TI Bone marrow transplantation in children. Imaging assessment of complications.
- L54 ANSWER 2 OF 53 MEDLINE
- TI Budd-Chiari syndrome: diagnosis with ultrasound and nuclear medicine calcium colloid liver scan following non-diagnostic contrasted CT scan.
- L54 ANSWER 3 OF 53 MEDLINE
- TI In-utero transplantation of parental CD34 haematopoietic progenitor cells in a patient with X-linked severe combined immunodeficiency (SCIDXI).
- L54 ANSWER 4 OF 53 MEDLINE
- TI Enhancement of fracture healing.
- L54 ANSWER 5 OF 53 MEDLINE 3/646,5.4
- TI Peripheral primitive neuroectodermal tumors. CT and MRI evaluation.
- L54 ANSWER 6 OF 53 MEDLINE
- [Reconstruction of speech and chewing function after extensive tumor resection in the area of the jaw and face].

 Wiederherstellung der Sprech- und Kaufunktion nach ausgedehnten
 Tumorresektionen im Kiefer-Gesichtsbereich.
- L54 ANSWER 7 OF 53 MEDLINE
- Outcome of extensive evaluation before adjuvant therapy in women with breast cancer and 10 or more positive axillary lymph nodes.
- L54 ANSWER 8 OF 53 MEDLINE
- TI [The value of Sowinski coracoid-plasty for recurrent dislocation of the shoulder].

 Wartosc plastyki wyrostka kruczego sposobem Sowinskiego w nawykowym zwichnieciu stawu ramiennego.
- L54 ANSWER 9 OF 53 MEDLINE
- TI Hydroxyapatite-alumina composites and bone-bonding.
- L54 ANSWER 10 OF 53 MEDLINE
- TI Enhancement of fracture-healing [see comments].
- L54 ANSWER 11 OF 53 MEDLINE
- Needle liver biopsy in thalassaemia: analyses of diagnostic accuracy and safety in 1184 consecutive biopsies.
- L54 ANSWER 12 OF 53 MEDLINE
- TI A pseudo-epidemic involving bone allografts.

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- ANSWER 13 OF 53 MEDLINE L54
- Ultrasound evaluation of hepatic and splenic TI microabscesses in the immunocompromised patient: sonographic patterns, differential diagnosis, and follow-up.
- ANSWER 14 OF 53 MEDLINE L54
- Carotido-brachial artery bypass for radiation induced injury of the TI subclavian artery. The value of a lateral mid-arm approach.
- ANSWER 15 OF 53 MEDLINE L54
- TI Fetal tissue collection from spontaneous abortions: a report from a single centre.
- ANSWER 16 OF 53 MEDLINE L54
- TI Prospective study of pituitary-gonadal function to evaluate short-term effects of ablative chemotherapy or total body irradiation with autologous or allogenic marrow transplantation in post-menarcheal female patients.
- -4/645, S. a L54 ANSWER 17 OF 53 MEDLINE
- Clinical evaluation of HTR polymer bone replacement grafts in human mandibular Class II molar furcations.
- ANSWER 18 OF 53 MEDLINE L54
- With the control of t ΤI in canine femora after hip arthroplasty. 1700
- L54 ANSWER 19 OF 53 MEDLINE
- TI Definition of a subset of human peripheral blood mononuclear cells that are permissive to human cytomegalovirus infection.
- ANSWER 20 OF 53 MEDLINE L54
- TI Advances in the screening and treatment of ovarian cancer [published erratum appears in CA Cancer J Clin 1993 May-Jun; 43(3):191-2] [see comments].
- L54 ANSWER 21 OF 53 MEDLINE
- ΤI Venocclusive disease of the liver: prospective study of US evaluation.
- ANSWER 22 OF 53 MEDLINE L54
- TI Chronic systemic candidiasis in acute leukemia.
- ANSWER 23 OF 53 MEDLINE L54
- TI feed efficiency, and carcass composition of Holstein and beef steers [published erratum appears in J Anim Sci 1992 Aug;70(8):2601].
- L54 ANSWER 24 OF 53 MEDLINE
- TI Sports traumatology today. A review of common current sports injury

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problems.

- ANSWER 25 OF 53 MEDLINE L54
- [Care of the focus of lesion during various stages of the surgical TI treatment of chronic osteomyelitis]. Sanatsiia ochaga porazheniia na razlichnykh etapakh khirurgicheskogo lecheniia khronicheskogo osteomielita.
- ANSWER 26 OF 53 MEDLINE L54
- [Ultrasonic evaluation of homologous bone and ΤI cartilage transplants of the femoral condyles]. Sonographische Beurteilung homologer Knochen/Knorpeltransplantate der Femurkondylen.

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- ANSWER 27 OF 53 MEDLINE L54
- . . The evaluation of cortical bone remodeling with a new TI ultrasonic technique.
- ANSWER 28 OF 53 MEDLINE L54
- [Non-ossifying fibroma of the bone in children]. TΙ Neossifitsiruiushchaiasia fibroma kosti u detei.
- L54 ANSWER 29 OF 53 MEDLINE
- [The value of sonography in assessing bone TItransplants -- an experimental study]. Stellenwert der Sonographie bei der Beurteilung von Spongiosatransplantaten -- eine experimentelle Untersuchung.
- ANSWER 30 OF 53 MEDLINE L54
- ANSWER 30 OF 53 MEDLINE lita.

 The evaluation of **bone** remodeling about orthopaedic TI implants with ultrasound.
- ANSWER 31 OF 53 MEDLINE L54
- sil countries [Ultrasound control of spongiosa transplant -- support of ΤI radiologic diagnosis]. Sonographische Kontrolle von Spongiosatransplantaten--Unterstutzung der radiologischen Diagnostik.
- ANSWER 32 OF 53 MEDLINE L54
- Detection of acute inflammation with 111In-labeled nonspecific ΤI polyclonal IgG.
- ANSWER 33 OF 53 MEDLINE L54
- ANSWER 33 OF 53 MEDLINE and landing in the intact and TI hypophysectomized fetal sheep using ultrasound.
- L54 ANSWER 34 OF 53 MEDLINE
- In utero bone marrow transplantation Beautiful. TI of fetal baboons with mismatched adult, marrow: initial observations.
- L54 ANSWER 35 OF 53 MEDLINE

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- SEM-EPMA observation of three types of apatite-containing TIglass-ceramics implanted in bone: the variance of a Ca-P-rich layer.
- L54 ANSWER 36 OF 53 MEDLINE
- [3 case reports of lumbosacral agenesis; role of the lumbo-iliac TI bone graft].

A propos de 3 observations d'agenesie lombosacree, place de la greffe lombo-iliaque.

- ANSWER 37 OF 53 MEDLINE L54
- [Current problems of bone pathology in children (surgical aspects)]. TISovremennye problemy kostnoi patologii u detei (khirurgicheskie aspekty).
- ANSWER 38 OF 53 MEDLINE L54
- [Roentgenological changes after ultrasonic discectomy and TIosteoplasty of the intervertebral defect]. Rentgenologicheskie izmeneniia posle ul'trazvukovoi diskektomii i kostnoi plastiki mezhpozvonochnogo defekta.
- ANSWER 39 OF 53 MEDLINE L54
- [The use of ultrasonic bone fusion for filling in bone TIdefects. Animal studies. II. Concluding remarks]. Die Anwendung des Ultraschallknochenschweissens zum Auffullen von Knochenhohlen. Tierexperimentelle Untersuchungen. II. Abschliessende Bemerkungen.
- gan stay war ANSWER 40 OF 53 MEDLINE L54
- [Basic studies on ultrasonic surgery. I. Principles, TI status and perspectives of ultrasonic surgery]. Grundlagenuntersuchungen zur Ultraschallchirurgie.
- L54 ANSWER 41 OF 53 MEDLINE
- e v la salt [Cranioplasty with formalin-treated homotransplants using TI ultrasonic instruments].

Kranioplastika formalinizirovannymi gomotransplantatami s primeneniem ul'trazvukovykh instrumentov.

- ANSWER 42 OF 53 MEDLINE L54
- [Current state and prospectives of ultrasonic osteosynthesis surgery of accident ΤI osteosynthesis surgery of accidental injuries]. Gegenwartiger Stand und Perspektive der Ultraschallosteosynthese in der Unfallchirurgie.

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- L54
- ANSWER 43 OF 53 MEDLINE Tumor inhibition by effector cells cultured from progressing ΤI sarcomas. oa Matto E w. Hito
- ANSWER 44 OF 53 MEDLINE L54
- Experimental models for prevention of graft-versus-host reaction in ΤI

bone marrow transfusion. II. Inability to prevent graft-versus-host reaction in an H-2 identical combination.

- ANSWER 45 OF 53 MEDLINE L54
- TI [Expediency of plastic surgery methods with osteomyelitic cavities]. O tselesoobraznosti nekotorykh sposobov plastiki osteomieliticheskikh polostei.
- ANSWER 46 OF 53 MEDLINE L54
- Experimental models for prevention of graft-versus-host reaction in ΤI bone marrow transfusion. I. Selective suppression and augmentation of splenomegaly and cytotoxicity.
- L54 ANSWER 47 OF 53 MEDLINE
- [Osteosynthesis of fragments of the mandible by homologous grafting ΤI of sections and ultrasonic coagulation]. Nakostnaia fiksatsiia otlomoknizhnei cheliusti vreznymi kortikal'nymi gomotransplantatami i ul'trazvukovoi svarkoi.
- ANSWER 48 OF 53 MEDLINE L54
- [Results of studying indices of immunologic reactivity following ΤI bone homotransplantation. II]. O rezul'tatakh izucheniia nekotorykh pokazatelei immunologicheskoi reaktivnosti bol'nykh posle gomotransplantatsii kosti. I.
- ANSWER 49 OF 53 MEDLINE L54
- ΤI Ultrasonics and physical properties of healing bone.
- ANSWER 50 OF 53 MEDLINE L54
- [Joining of bones using ultrasonics]. TI Soedinenie kostei s pomoshch'iu ul'trasvuka.
- L54 ANSWER 51 OF 53 MEDLINE
- ANSWER 51 OF 53 MEDLINE State of bone tissue by TI ultrasonic welding).

Zapolnenie defektov v kostiakh i vossozdanie kostnoi tkani s pomoshch'iu ul'trazvukovoi svarki.

- ANSWER 52 OF 53 MEDLINE L54
- [Ultrasonic osteosynthesis and reconstruction of bone ΤI tissue]. Ul'trazvukovoi osteosintez i vossozdanie kostnoi tkani.
- ANSWER 53 OF 53 MEDLINE L54
- [Osteosynthesis and refilling of bone defects by use of ΤI ultrasound welding]. Osteosintez i zapolnenie defektov v kostiakh s pomoshch'iu ul'trazvukovoi svarki.
- => d 154 4,10,27,31,34,36,38,39,40,42,44,46,47,49,50,52 all

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ANSWER 4 OF 53 MEDLINE
L54
                  MEDLINE
AN
     96284389
TI
     Enhancement of fracture healing.
ΑU
     Einhorn T A
     Mount Sinai School of Medicine, New York, New York, USA.
CS
     INSTRUCTIONAL COURSE LECTURES, (1996) 45 401-16. Ref: 140
SO
     Journal code: IFC. ISSN: 0065-6895.
CY
     United States
     Journal; Article; (JOURNAL ARTICLE)
DT
     General Review; (REVIEW)
     (REVIEW, TUTORIAL)
LA
     English
FS
     Priority Journals
     9611
EM
CT
     Check Tags: Human
      Bone Remodeling
      Bone Transplantation
      Electric Stimulation Therapy: MT, methods
      Fracture Fixation: MT, methods
      Fracture Healing: DE, drug effects
     *Fracture Healing: PH, physiology\ell^{(n+1)}, \ell^{(n+1)}
      Growth Substances: TU, therapeutic use
      Osteogenesis
      Physical Stimulation
      Proteins: TU, therapeutic use
      Transforming Growth Factor beta: TU, therapeutic use
      Ultrasonic Therapy: MT, methods
     0 (Bone Morphogenetic Proteins); 0 (Growth Substances); 0
CN
     (Proteins); 0 (Transforming Growth Factor beta)
     ANSWER 10 OF 53 MEDLINE
L54
                                      A(11)
AN
     95301601 MEDLINE
TI
     Enhancement of fracture-healing [see comments].
     Comment in: J Bone Joint Surg Am 1996 Dec; 78(12):1945-6
CM
AU
     Einhorn T A
     Department of Orthopaedics, Mount Sinai Medical Center, New York,
CS
     N.Y. 10029-6574, USA.
     JOURNAL OF BONE AND JOINT SURGERY. AMERICAN VOLUME, (1995 Jun) 77
SO
     (6) 940-56. Ref: 144
     Journal code: HJR. ISSN: 0021-9355. http://doi.org/10.114/14/14
CY
     United States
DT
     Journal; Article; (JOURNAL ARTICLE)
     General Review; (REVIEW)
     (REVIEW, TUTORIAL)
                                      itic nie
LA
     English
     Abridged Index Medicus Journals; Priority Journals
FS
EM
     9509
CT
     Check Tags: Human
                                      of Sil, there
      Bone Marrow Transplantation
      Bone Transplantation G = \{C_{ij}G_{ij}G_{ij}\}_{i=1}^{n}
      Bone and Bones: BS, blood supply: Part to be
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Electric Stimulation Therapy: MT, methods
     *Fracture Healing: PH, physiology
      Growth Substances: TU, therapeutic use
     *Osseointegration
      Osteogenesis: PH, physiology
      Physical Stimulation
                                    ent Pattententen und
      Transplantation, Autologous
      Ultrasonic Therapy: MT, methods
     0 (Growth Substances)
CN
     ANSWER 27 OF 53 MEDLINE
L54
AN
     90263991
                  MEDLINE
     The evaluation of cortical bone remodeling with a new
TI
   ultrasonic technique.
     Zimmerman M C; Meunier A; Katz J L; Christel P
AU
     Department of Orthopaedic Surgery, University of Medicine and
CS
     Dentistry of New Jersey, Newark 07103.
SO
     IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING, (1990 May) 37 (5)
     433-41.
     Journal code: GFX. ISSN: 0018-9294.
                                     [8/646,5.9
CY
     United States
     Journal; Article; (JOURNAL ARTICLE)
DT
LA
     English
                                     Ily markets
     9009
EM
     Total hip arthroplasty causes biomechanical changes in the normal
AB
     femur including a redistribution and concentration of stress. These
     mechanical alterations in the femur cause local remodeling and
     resorption that affect the geometry and mechanical properties of the
     bone. Three complementary techniques were used to study the local
     adaptive remodeling of bone due to prosthesis
   implantation. A graphics package was used to obtain section
     geometrical information, an ultrasonic wave propagation
     technique to determine elastic properties, and a new scanning
     acoustic microscope (SAM) to map the acoustic impedance profile of
     each section. The effects of the implantation of two different types
     of hip prostheses were investigated, an uncemented bipolar
     prosthesis with an Austin-Moore type stem and a cemented Charnley
     prosthesis. Prosthesis implantation resulted in an increase in
     cortical area and mediolateral diameter and a decrease in
     anterio-posterior diameter. Both, prostheses had a detrimental effect
     on local elastic properties as determined by acoustic velocity
     measurements. Finally, the SAM system provided information about
     local inhomogeneities in bone properties not obtainable by any other
     means. The acoustic impedance maps highlighted bone resorption and
     bone remodeling on a microstructural level.
     Check Tags: Comparative Study; Female; Human; Support, Non-U.S.
CT
     Gov't; Support, U.S. Gov't, P.H.S. All Park 1
      Aged
                                     Commence of Charles and
      Aged, 80 and over
                                     Lar Calle 1
     *Bone Development
                                      thy and noth
     *Bone Resorption: DI, diagnosis
                                      ta jir ta
                                     Secretary districts
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Elasticity
     Femur: PA, pathology
     *Hip Prosthesis: AE, adverse effects
     *Ultrasonography: MT, methods
L54
    ANSWER 31 OF 53 MEDLINE
                                     MEDLINE
AN
     89158569
     [Ultrasound control of spongiosa transplant--support of
TI
     radiologic diagnosis].
     Sonographische Kontrolle von Spongiosatransplantaten--Unterstutzung
     der radiologischen Diagnostik.
    Reith H B; Boddeker W; Kozuschek W
ΑU
     Chirurgische Universitatsklinik, Knappschaftskrankenhaus
CS
     Bochum-Langendreer..
     LANGENBECKS ARCHIV FUR CHIRURGIE, (1989) 374 (1) 39-45.
SO
     Journal code: L1M. ISSN: 0023-8236.
CY
     GERMANY, WEST: Germany, Federal Republic of
DT
     Journal; Article; (JOURNAL ARTICLE)
LA
     German
FS
     Priority Journals
                                    3/549,519
EM
     8906
     The x-ray control is standard for spongiosa substance plasty and
AB
     shows three periods of healing. In the first two periods
     (vascularisation and osteogenic reaction) the examination is
     restricted. Ultrasound control is a simple handling method
     although a hyporesonance or non-resonance of calcareous bone exists.
     The follow-ups concerning spongiosa substance plasty are made by
   ultrasound and x-ray control, and more exact assessments are
    possible. Advantages and disadvantages of ultrasound in
     extremities are discussed.
                                      the strain of the
     Check Tags: Human
CT
     Bone and Bones: PA, pathology
     *Bone and Bones: TR, transplantation
     *Bone Transplantation
      English Abstract
                                     Karg patenced
      Follow-Up Studies
     *Fracture Fixation, Internal
                                    1, (2 3.5) ale
     *Ultrasonography
                                     ic,
     *Wound Healing
                                     T millie of
     ANSWER 34 OF 53 MEDLINE
L54
                 MEDLINE
AN
     89001461
     In utero bone marrow transplantation
TI
     of fetal baboons with mismatched adult marrow: initial observations.
    Roodman G D; Vandeberg J L; Kuehl T J
ΑU
     Research Service, Audie L. Murphy VA Hospital, San Antonio, TX
CS
     78284.
NC
    HL-31264 (NHLBI)
    HL-31264 (NHLBI)
BONE MARROW TRANSPLANTATION, (1988 Mar) 3 (2) 141-7.
SO
     Journal code: BON. ISSN: 0268-3369.
     ENGLAND: United Kingdom
CY
                                    ARBEITER OF ALL
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Journal; Article; (JOURNAL ARTICLE)
DT
    English
LA
FS
     Priority Journals
EM
     8901
AB
    Recent advances in prenatal diagnoses of sickle cell anemia and
     thalassemia permit early identification of affected fetuses.
    However, the only intervention possible to date is abortion of the
    affected fetuses. Transplantation of 'normal marrow
     into fetuses in utero could correct these life-threatening
     disorders, but to accomplish this techniques must be developed for
     fetal transplantation in man. Therefore, we have transplanted fetal
    baboons with mismatched adult baboon bone marrow from donors that
    differed at the glucose phosphate isomerase locus. Twenty-two
     fetuses between 60 and 160 days of gestation (term gestation is 182
     days) were transplanted intraperitoneally with 10(9) marrow
    mononuclear cells/kg body weight using an ultrasonic
     technique. No immunosuppressive or preparative regimen was given
    prior to or after transplantation, and all fetuses tolerated the
    procedure well. One month after transplantation fetal blood samples
    were obtained to assess chimerism. Three chimeras were detected
     among 10 fetuses transplanted at 80 days gestation, and no chimeras
     were detected in fetuses greater than 80 days' gestation at the time
     of transplantation. All chimeras died in utero during the third
     trimester of pregnancy: one of an intrauterine infection at 160
     days' gestation, one at 135 days' gestation and one at 145 days'
     gestation. In contrast, the other 19 non-chimeric fetuses survived.
     These data suggest: (1) in utero fetal bone marrow
   transplantation is technically feasible in primates; (2)
     that allogeneic adult bone marrow can engraft and persist for at
     least 1 month in fetal baboons transplanted at 80 days of gestation;
     and (3) that delineation of the causes for loss of fetal chimeras
     should prove valuable in assessing the therapeutic potential for in
     utero bone marrow transplantation in
    man.
Check Tags: Animal; Female; Male; Support, U.S. Gov't, Non-P.H.S.;
CT
     Support, U.S. Gov't, P.H.S.
                                     at garden in
      Aging
                                     It is lead to
      Bone Marrow: PH, physiology
                                     the ball of the
     *Bone Marrow Transplantation
                                     t, and all
      Chimera
                                     Li Angli Mari
     *Fetal Development
                                     m. Grande that
     Gestational Age
Glucosephosphate Isomerase: BL, blood blood blood
      Glucosephosphate Isomerase: GE, genetics
     *Histocompatibility Antigens: GE, genetics
     Papio
EC 5.3.1.9 (Glucosephosphate Isomerase); 0; (Histocompatibility
CN
     Antigens)
                                    i filal line
                                     dul- laget
     ANSWER 36 OF 53 MEDLINE
L54
                                    of Chi Chipat
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AN
         86053764
                                   MEDLINE
          [3 case reports of lumbosacral agenesis; role of the lumbo-iliac
ΤI
     bone graft].
         A propos de 3 observations d'agenesie lombosacree, place de la
         greffe lombo-iliaque.
         Saint-Supery G; Wallon P; Bucco P; Barnetche J M
ΑU
         CHIRURGIE PEDIATRIQUE, (1985) 26 (3) 181-6.
SO
         Journal code: COA. ISSN: 0180-5738.
CY
         France
\mathtt{DT}
         Journal; Article; (JOURNAL ARTICLE)
LA
         French
FS
         Priority Journals
EM
         8603
         From 3 cases (8,2 and 16 years) the two first patients have been
AB
          followed since birth, and in reviewing the 124 cases published in
         the literature, the authors analyze: the possible causes with in
          first the mother's diabetes, the possibility of antenatal diagnosis
         with ultrasound, the clinical symptoms: paraplegia with
         stiff joints and deformities of lower limbs, finally the therapeutic
         possibilities to correct the deformities of lower limbs and find the
         compromise between straighten the patient to authorize the possible
          standing and keep mobility between trunk and pelvis to allow
         sitting. In this case, the lumbo-iliac bone graft
         can be used if necessary and if the mobility of the hips make that
         possible. This bone graft was realized once in
         January 1979 (follow up 5 1/2 years). All the references are in Dr
         Barnetche's thesis (Bordeaux 1984, n degrees 135).
          Check Tags: Case Report; Female; Human; Male
CT
            Adolescence
                                                                            (.) 13.55.
            Child
                                                                          .3.
            Child, Preschool
            Contracture: ET, etiology
            Contracture: RH, rehabilitation
            English Abstract
            Locomotion
          *Lumbar Vertebrae: AB, abnormalities (19) (11)
           Lumbar Vertebrae: RA, radiography in the
          *Paraplegia: ET, etiology
                                                                         godi Alin jo
           Paraplegia: RH, rehabilitation ( paraibility
          *Sacrum: AB, abnormalities
                                                                        , i turk i park
            Sacrum: RA, radiography
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L54
         ANSWER 38 OF 53
                                           MEDLINE
                                                                          AN
          83116317
                                   MEDLINE
          83116317 MEDLINE trunk in a trunk in a line tr
TI
          osteoplasty of the intervertebral defect].
          Rentgenologicheskie izmeneniia posle ul'trazvukovoi diskektomii i
         kostnoi plastiki mezhpozvonochnogo defekta:
         Demichev N P; Dianov S V
ΑU
          ORTOPEDIIA TRAVMATOLOGIIA I PROTEŽIROVANIE; (1982 Nov) (11) 21-5.
SO
```

Journal code: OKY. ISSN: 0030-5987.

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CY
DT
    Journal; Article; (JOURNAL ARTICLE)
LA
    Russian
EM
     8305
CT
     Check Tags: Animal; Human
     Bone and Bones: TR, transplantation
      Bone Regeneration
     Bone Transplantation
     Dogs
      English Abstract
     Follow-Up Studies
     *Intervertebral Disk: SU, surgery
     Lumbar Vertebrae: RA, radiography
     *Lumbar Vertebrae: SU, surgery
     *Osteochondritis: SU, surgery
     *Spinal Fusion: MT, methods
     *Ultrasonics: IS, instrumentation
L54
    ANSWER 39 OF 53 MEDLINE
     82182011 MEDLINE
AN
     The use of ultrasonic bone fusion for filling in bone
ΤI
     defects. Animal studies. II. Concluding remarks].
     Die Anwendung des Ultraschallknochenschweissens zum Auffullen von
     Knochenhohlen. Tierexperimentelle Untersuchungen. II. Abschliessende
     Grasshoff H; Weickert H; Beckert M; Martinek I; Kuhne W; Kutschmann
AU
     BEITRAGE ZUR ORTHOPADIE UND TRAUMATOLOGIE, (1982 Jan) 29 (1) 1-10.
SO
     Journal code: 9N4. ISSN: 0005-8149.
     GERMANY, EAST: German Democratic Republic
CY
     Journal; Article; (JOURNAL ARTICLE)
DT
LA
     German
     8208
EM
     Check Tags: Animal
CT
     *Bone and Bones: TR, transplantation
      Bone Diseases: PP, physiopathology
     *Bone Diseases: SU, surgery
      Bone Regeneration
     *Bone Transplantation
     *Cyanoacrylates: TU, therapeutic use
      Dogs
      English Abstract
     Rabbits
                                    orada izvala 4 f f f j
     *Ultrasonics
                                    moderating acome
     0 (Cyanoacrylates)
CN
                                    Burney Breeze Lo
                                    m. Water ast
L54
     ANSWER 40 OF 53 MEDLINE
AN
     82178140 MEDLINE
     82178140 MEDLINE [Basic studies on ultrasonic surgery. I. Principles,
ΤI
     status and perspectives of ultrasonic surgery].
     Grundlagenuntersuchungen zur Ultraschallchirurgie.
                                      Population
```

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Wehner W; Muller T; Muller W; Neumann A
ΑU
          ZEITSCHRIFT FUR EXPERIMENTELLE CHIRURGIE, (1981 Dec) 14 (6) 357-64.
SO
          Journal code: XUO. ISSN: 0044-2704.
CY
          GERMANY, EAST: German Democratic Republic
DT
          Journal; Article; (JOURNAL ARTICLE)
LA
          German
                                                                               Satt dirtaliamen nehnlic unter-
FS
          Priority Journals
EM
          8208
          The ultrasonic power with regard to its medical use for
AB
          resection, treatment, and joining of soft and hard biologic tissues
           is investigated after the formation of the ultrasonic
          diagnostics and therapy. The situation of the ultrasonic
          surgery as an unconventional method for the ingenious
          complementation of tested operative techniques is valued after the
          representation of the mode of operation and the present equipment.
          The trend of development and prospective problems of the research
          are deduced from them.
CT
          Check Tags: Human
            Amputation Stumps
            Bone and Bones: TR, transplantation
            Bone Transplantation State of the Control of the Co
            English Abstract
            Fistula: SU, surgery
            Fracture Fixation: MT, methods 112, 114, 14
            Necrosis: SU, surgery
            Osteomyelitis: SU, surgery
                                                                           = (-1)^{n} , while \Gamma_{n+1}
           *Ultrasonic Therapy
L54
          ANSWER 42 OF 53
                                             MEDLINE
          80153276
                                     MEDLINE
AN
           [Current state and prospectives of ultrasonic
TI
          osteosynthesis surgery of accidental injuries].
          Gegenwartiger Stand und Perspektive der Ultraschallosteosynthese in
          der Unfallchirurgie.
                                                                               antion of th
          Muller T; Wehner W
ΑU
          Muller T; Wehner W
BEITRAGE ZUR ORTHOPADIE UND TRAUMATOLOGIE; (1979 Oct) 26 (10) 570-6.
SO
          Journal code: 9N4. ISSN: 0005-8149.
          GERMANY, EAST: German Democratic Republic
CY
DT
          Journal; Article; (JOURNAL ARTICLE)
LA
          German
          8007
EM
CT
          Check Tags: Human
            Accidents
           *Bone and Bones: TR, transplantation
           *Bone Cements: TU, therapeutic use
           *Bone Transplantation
            Fracture Fixation: IS, instrumentation
           *Fracture Fixation: MT, methods
           *Fractures: SU, surgery
           *Ultrasonic Therapy
```

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ANSWER 44 OF 53 MEDLINE
L54
                  MEDLINE
AN
     Experimental models for prevention of graft-versus-host reaction in
TI
     bone marrow transfusion. II. Inability to prevent graft-versus-host
     reaction in an H-2 identical combination.
ΑU
     Nagino H; Nomoto K; Kuroiwa A; Miyazaki. S; Goya N; Takeya K
     INTERNATIONAL ARCHIVES OF ALLERGY AND APPLIED IMMUNOLOGY, (1978) 56
SO
     (1) 48-56.
     Journal code: GP9. ISSN: 0020-5915.
CY
     Switzerland
DT
     Journal; Article; (JOURNAL ARTICLE)
LA
     English
FS
     Priority Journals
EM
     7804
                                      دميش بأمارة وإوبيت فاستوعون والمشيئية عمامية
     Splenomegaly was strong in the degree and continued for a long
AB
     period of time in adult F1 hybrids between AKR (H-2k) and C3H/He
     (H-2k) mice after transfer of spleen cells from normal C3H/He mice.
     In spleen cells of such F1 recipients, cytotoxicity was detected by
     an in vivo neutralization test using methylcholanthrene-induced
     sarcoma or AKR origin as target cells. All of newborn F1 recipients
     died within 17 days after cell transfer. Induction of splenomegaly
     and cytotoxicity was not prevented by repeated pretreatments of
     donors with sonicated AKR spleen cells in saline, which
     suppressed completely such phenomena of graft-versus-host reaction
     in an H-2 nonidentical combination. Induction of cytotoxicity in the
     spleen of F1 recipients was not prevented by a pretreatment of
     donors with AKR spleen cells in complete Freund's adjuvant, which
     suppressed the induction of cytotoxicity in an H-2 nonidentical
     combination. Graft-versus-host reaction appears to be stronger in a
     combination between parental strains of which major
     histocompatibility antigens were identical.
CT
     Check Tags: Animal
     *Bone Marrow: TR, transplantation
     *Bone Marrow Transplantation
      Crosses, Genetic
      Cytotoxicity, Immunologic
     *Graft vs Host Reaction
     *Histocompatibility Antigens
                                      the he was not a
      Isoantibodies: AN, analysis
                                       1. . 4 (0. 1.3 4
                                     States, Callet
      Mice, Inbred AKR
                                      garling as thy he
      Mice, Inbred C3H
                                      colle, All o
      Mice, Inbred C57BL
                                      المعالم المائد والأعارات
      Spleen: CY, cytology
                                      getting & grant
      Splenomegaly
                                      ត្រប់នៅវ៉ាន់ ដូចែងនេះ
ឯសាធ ស ស្រែស
      Transplantation, Homologous
                                       on, In tally
L54
     ANSWER 46 OF 53 MEDLINE
                                       properties in
AN
     77121676
                  MEDLINE
     77121676 MEDLINE Experimental models for prevention of graft-versus-host reaction in
TI
     bone marrow transfusion. I. Selective suppression and augmentation
```

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Alternatively

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of splenomegaly and cytotoxicity.
AU
    Miyazaki S; Nomoto K; Kuroiwa A; Goya N; Takeya K
    JAPANESE JOURNAL OF MICROBIOLOGY, (1976 Dec) 20 (6) 493-8.
SO
    Journal code: KMF. ISSN: 0021-5139.
CY
    Japan
DT
    Journal; Article; (JOURNAL ARTICLE)
LA
FS
    Priority Journals
EM
     7706
     Induction and suppression of splenomegaly and cytotoxicity against
AB
     C57BL/L cells were studied in (AKR X C57BL/6) F1 hybrid adult mice
     after the transfer of AKR lymphoid and bone marrow cells. 1)
     Splenomegaly and cytotoxicity were dissociated in the developmental
     stages of the graft-versus-host reaction. When lymphoid and bone
    marrow cells of normal AKR mice were injected into F1 recipients,
     splenomegaly was prominent on days 5 and 7, but cytotoxicity of
     spleen cells was not detected. Splenomegaly became less prominent
     but the cytotoxicity became detectable on day 14 after the
     injection. 2) Cytotoxic activity of spleen cells of F1 recipients
    was suppressed by the treatment of AKR donors with C57BL/6 lymphoid
     cells in Freund's complete adjuvant? Splenomegaly, however, was
     substantially enhanced by such a treatment of the donors. On the
     other hand, induction of the cytotoxic activity was facilitated by
     the treatment of donors with C57BL/6 skin grafts. 3) F1 hybrid mice
     could be protected from the graft-versus-host reaction by the
     injection of AKR anti-C57BL/6 serum or pretreatment of AKR donors
    with sonicated cellular antigens of C57BL/6.
CT
     Check Tags: Animal
     *Bone Marrow: CY, cytology
     *Bone Marrow: TR, transplantation
     *Bone Marrow Transplantation
     Cytotoxicity Tests, Immunologic
     *Graft vs Host Reaction
                                    32 # CDR17
     Mice
                                    old and bare
     Mice, Inbred AKR
                                     ira di sublat
     Mice, Inbred C57BL
                                    Agonalton, 18
     Spleen: IM, immunology
                                    - 1 .. 2 into the
     *Splenomegaly: IM, immunology
                                   1 3 5 Will /,
     Transplantation, Homologous
                                    State of the
                                    in table on de
    ANSWER 47 OF 53 MEDLINE
L54
                                    MEDLINE
AN
     76105458
     [Osteosynthesis of fragments of the mandible by homologous grafting
ΤI
     of sections and ultrasonic coagulation].
    Nakostnaia fiksatsiia otlomoknizhnei cheliusti vreznymi
    kortikal'nymi gomotransplantatami i ul'trazvukovoi svarkoi.
    Petrov V I; Bazhanov N N; Loschilov V I; Ter-Asaturov G P;
AU
    Kuspangaliev M U
    STOMATOLOGIIA, (1975 Sep-Oct) 54 (5) 29-34.
SO
     Journal code: V1M. ISSN: 0039-1735.
CY
    USSR
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DT
                   Journal; Article; (JOURNAL ARTICLE)
LA
                   Russian
FS
                   Dental Journals
                   7605
EM
CT
                   Check Tags: Human
                   *Bone and Bones: TR, transplantation
                   *Bone Transplantation
                    *Electrocoagulation
                      Electrocoagulation: MT, methods
                       English Abstract
                    *Fracture Fixation, Internal: MT, methods.
                    *Mandibular Fractures: SU, surgery
                       Osteogenesis
                       Transplantation, Homologous
                                                                                                                                             المستقالة والمقارف المتارك المتارك والمتارك والم
                    *Ultrasonics
                   ANSWER 49 OF 53 MEDLINE
L54
AN
                   72159932 MEDLINE
TI
                   Ultrasonics and physical properties of healing bone.
                   Abendschein W F; Hyatt G W
AU
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                       Transplantation, Autologous
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     *Ultrasonic Therapy
      Wound Healing
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